RDT&E PROGRAMS (R-1)

DEPARTMENT OF DEFENSE BUDGET FOR FISCAL YEAR 1993

January 29, 1992

MAR 5 1992

92-05112

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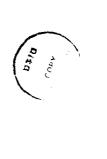
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Preface

The R.D.T. & E. Programs (R-1) exhibit is derived from and consistent with the DoD Future Years Defense Program R.D.T.&E Annex data base. The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmittal by the President of the Budget of the United States Government. It is accompanied by an automated data base submission to the House Committee on Administration for input to the House Information System. An unclassified version of the document is provided to OASD(PA) for use by non-DoD activities.

Office of the Comptroller of the Department of Defense



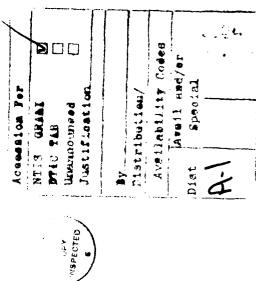


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Department of Defense FY 1993 R D T & E Program

Summary

Exhibit R-1

Date: 29 Jan 1992

		Thousand	Thousands of Dollars
	FY 1991	FY 1992	FY 1993
Summary By Appropriation			
Research Development Test & Eval Army	5,573,250	6,453,346	5,414,477
Research Development Test & Eval Navy	7,989,353	8,549,850	8,517,778
Research Development Test & Eval AF	11,975,169	13,590,944	14,532,375
Research Development Test & Eval Def Ag	9,081,601	9,522,442	10,053,381
Director of Test & Eval Defense	237,310	210,225	281,707
Director of Operational Test & Evaluation	13,550	12,836	12,983
Total Research, Development, Test & Evaluation	34,870,233	38,339,643	38,812,701
Summary Recap of Research Categories			
Research	1,156,876	1,024,218	1,124,006
Exploratory Development	2,729,570	2,892,339	2,985,850
Advanced Development	10,769,269	10,642,020	11,373,403
Engineering Development	8,702,029	10,302,033	8,993,631
Management and Support	2,866,247	2,886,342	2,899,382
Research and Development (FYDP Program 6)	26,223,991	27,746,952	27,376,272
Operational Systems Development	8,646,242	10,592,691	11,436,429
Total Research, Development, Test & Evaluation	34,870,233	38,339,643	38,812,701

These Note: Medical research funds in the amount of \$313,033 thousand should be added to the preceding RDT&E breakout for FY 1993 to identify total amounts budgeted for RDT&E. medical research funds are contained within the Operation and Maintenance title.

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R D T & E Program Department of Defense FY 1993 R D T & E Proc

Summary

Date: 29 Jan 1992

Exhibit R-1

Thousands of Dollars 4,647,189 13,241,023 4,147,032 2,925,336 7,652,912 20,200 3,727 FY 1993 7,682,302 393,678 27,376,272 262,859 4,083,974 5,011,181 38,812,701 172,417 5,300 38,812,701 2,946 4,312,140 14,530,120 38,339,643 534,505 38,339,643 FY 1992 3,913,557 6,470,508 5,201,491 3,911,827 2,635,196 7,029,143 10,955 27,746,952 265,479 109,293 5,174 2,682 5,298,181 4,374,575 12,610,734 4,470,643 34,870,233 9,119 34,870,233 FY 1991 3,886,446 4,229,654 2,050,187 5,240,786 12,797 306,258 190,562 830,851 26,223,991 Total Research, Development, Test & Evaluation Total Research, Development, Test & Evaluation Research and Development (FYDP Program 6) Administration and Assoc Activities Summary Recap of Budget Activities Intelligence and Communications Intelligence and Communications Advanced Technology Development Central Supply and Maintenance Summary Recap of FYDP Programs Defensewide Mission Support Special Operations Forces Support of Other Nations General Purpose Forces Strategic Programs Tactical Programs Strategic Forces Airlift/Sealift Technology Base

Note: Medical research funds in the amount of \$313,033 thousand should be added to the preceding RDT&E breakout for FY 1993 to identify total amounts budgeted for RDT&E. medical research funds are contained within the Operation and Maintenance title.

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Army	
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Department	1993
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Exhibit R-1	Date: 29 Jan 1992
1993 RDT&EProgram	Summary

		Thousands	s of Dollars
	FY 1991	FY 1992	FY 1993
Summary Recap of Research Categories			
Research Exploratory Development Advanced Development	180,604 639,693 1,238,454	190,772 666,511	177,230 601,982
Engineering Development Management and Support	1,621,983	2,426,236 1,350,345	1,919,242
Research and Development (FYDP Program 6) Operational Systems Development	4,984,213	6,018,227 435,119	5,023,723
Total Research Development Test & Eval Army	5,573,250	6,453,346	5,414,477
Summary Recap of Budget Activities			
Technology Base	820,297	854,283	753,330
Advanced Technology Development Stratedic Programs	504,461	411,742	431,680
Tactical Programs	2,670,165	3,613,679	2,748,074
Intelligence and Communications Defensevide Mission Support	86,562	143,954	176,759
	1,332,112	7,356,502	1,260,857
Total Research Development Test & Eval Army	5,573,250	6,453,346	5,414,477
Summary Recap of FYDP Programs			
Strategic Forces	39,677	7,923	8,274
General Purpose Forces	422,635	275,980	197,327
inceringence and communications Research and Development (FYDP Program 6)	91,243	139,198	165,450
Central Supply and Maintenance Administration and Assoc Activities	30,841	12,018	19,703
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rotai Research Development Test & Eval Army	5,573,250	6, 453,346	5,414,477

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Department of the Army	FY 1993 RDT & E Program	

		Department of FY 1993 R D T	the E	Army Program	-	Exhibit R-1
Appro	Appropriation: 2040 A	2040 A Research Development Test & Eval Army			Date:	29 Jan 1992
! !					Thousands	of Dollars
Line	Frogram Line Element NO Number	Item	Act	FY 1991	FY 1992	FY 1993 C
7	0601101A	In-House Laboratory Independent Research	-1	8,834	8,946	n 169'9
2	0601102A	Defense Research Sciences	1	171,770	178,867	166,645 U
m	0601104A	Electromechanics and Hypervelocity Physics	7		2,959	3,888 U
4	0602104A	TRACTOR ROSE	-		1,578	3,577 U
S	0602105A	Materials Technology	٦	13,678	11,723	13,983 U
9	0602120A	Electronic Survivability and Fuzing Technology	1	26,720	20,065	19,204 U
7	0602122A	Survivability Enhancement	1	12,148	10,952	14,551 U
80	0602123A	TRACTOR FIELD	7	5,137	2,831	n
6	0602211A	Aviation Technology	т	37,843	45,544	46,611 U
10	0602270A	EW Technology	7	21,236	23,078	D
11	0602303A	Missile Technology	- 1	34,969	25,585	33,164 U
12	0602307A	Laser Weapons Technology	H	440	484	585 U
13	0602308A	Modeling and Simulation	н		8,000	ם
14	0602601A	Combat Vehicle and Automotive Technology	п	34,510	38,472	46,992 U
15	0602618A	Ballistics Technology	H	28,881	62,980	59,391 U
16	0602622A	Chemical, Smoke and Equipment Defeating Technolog	7 -	46,672	51,379	47,727 U
17	0602623A	Joint Service Small Arms Program	т.	4,213	4,531	4,786 U
18	0602624A	Weapons and Munitions Technology	-	47,401	39,463	37,270 U
19	0602705A	Electronics and Electronic Devices	7	20,340	19,995	18,011 U
20	0602709A	Night Vision Technology	-	21,498	30,616	35,706 U

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Department of the Army FY 1993 R D T & E Program

Exhibit R-1

Program Prog	Appr	Appropriation: 2040 A Re	2040 A Research Development Test & Eval Army			Date:	29 Jan 1992
### Figure Trem Liem Act PY 1991 PY 1992 PY	 			; ; ; ; ; ; ;		Thousands	
1,887 1,887 1,887 1,887 1,887 1,887 1,98	Line		Item	Act	FY 1991	FY 1992	FY 1993 C
0602727A Environmental Quality Technology 1 17,774 24,355 1 0602727A Non-System Ttaining Device Technology 1 6,231 3,500 060278A Command, Control, Communications Technology 1 4,458 5,703 060278A Military Engineering Technology 1 46,285 43,443 4 060278A Manpower/Personnel/Training Technology 1 18,112 15,870 1 060278A Manpower/Personnel/Training Technology 1 18,112 15,870 1 060278A Medical Technology 1 18,112 15,870 1 060278A Medical Technology 1 11,404 108,820 1 060278A ABWY Artificial Intelligence Technology 1 1,467 1,608 1 060278B ABWY Artificial Intelligence Technology 2 8,655 10,489 1 06028B ABACTOR PULL 2 8,655 10,489 1 0603001A Aviation Advanced Technology 2 47,	21			-4	11,887	5,852	10,568 U
0602727A Non-System Training Device Technology 1 6,231 3.500 0602782A Command, Control, Communications Technology 1 24,319 19,289 2 0602783A Military Engineering Technology 1 46,285 43,443 4 0602785A Military Engineering Technology 1 46,285 43,443 4 0602785A Military Engineering Technology 1 46,747 34,921 3 0602786A Logistics Technology 1 111,404 108,820 1 0602787A Medical Technology 1 1,608 2 1 060278A Abby Artificial Intelligence Technology 1 1,840 1,608 060278A Abby Artificial Intelligence Technology 2 820,297 854,283 75 06028B TRACTOR PULL 2 820,297 854,283 75 0603002A Medical Advanced Technology 2 47,283 55,462 0603003A Aviation Advanced Technology 2 54,427 61,8	22		Environmental Quality Technology	-	12,724	24,355	18,447 U
0602783A Command, Control, Communications Technology 1 24,319 19,289 2 0602783A Computer and Software Technology 1 4,458 5,703 4 0602784A Military Engineering Technology 1 46,285 43,443 4 0602786A Manpower/Personnel/Training Technology 1 18,112 15,870 1 0602786A Logistics Technology 1 46,747 34,921 3 0602786A Logistics Technology 1 111,404 108,820 1 0602786A ARMY Artificial Intelligence Technology 1 1,840 1,608 0602789A ARMY Artificial Intelligence Technology 2 820,297 854,283 75 0602813A ARMY Artificial Intelligence Technology 2 8,655 10,489 1 0603001A Logistics Advanced Technology 2 8,655 10,489 1 0603002A Wedical Advanced Technology 2 54,427 61,865 4 0603005A Wedical Advanced Tech	23		Non-System Training Device Technology	7	6,231	3,500	8,483 U
0602783A Computer and Software Technology 1 4,458 5,703 0602785A Military Engineering Technology 1 46,285 43,443 4 0602785A Manpower/Personnel/Training Technology 1 18,112 15,870 1 0602786A Logistics Technology 1 46,747 34,921 3 0602786A Medical Technology 1 111,404 108,820 1 0602786A Medical Technology 1 11,608 1,608 1 0602789A ARWY Artificial Intelligence Technology 1 1,608 1,608 0602789A ARWY Artificial Intelligence Technology 2 820,297 84,283 75 0602813A TRACTOR FULL 2 8,655 10,489 1 0603803A Medical Advanced Technology 2 8,655 10,489 1 060300A Weapons and Munitions Advanced Technology 2 54,427 61,865 4 060300BA Combat Vehicle and Automotive Advanced Technology 2 <td< th=""><th>24</th><th></th><td>Command, Control, Communications Technology</td><td>7</td><td>24,319</td><td>19,289</td><td>24,301 U</td></td<>	24		Command, Control, Communications Technology	7	24,319	19,289	24,301 U
60602784A Military Engineering Technology 1 46,285 43,443 4 60602785A Manpower/Personnel/Training Technology 1 18,112 15,870 1 6602786A Acqistics Technology 1 46,747 34,921 3 6602787A Medical Technology 1 111,404 108,820 1 6602789A TRACTOR FLOP 1 1,608 1 1,608 1 6602789A ARMY Artificial Intelligence Technology 1 1,840 1,608 1 7602789A ARACTOR PULL 2 2,874 1 1,608 1 7602813A TRACTOR PULL 2 3,000 2 3,000 2 10,489 1 7603001A Medical Advanced Technology 2 47,283 55,462 3 3 6 4 7603005A Weapons and Munitions Advanced Technology 2 54,427 61,865 4 4 7603005A Combat Vehicle and Automotive Advanced Technology 2 <td< th=""><th>25</th><th></th><td>H</td><td>т</td><td>4,458</td><td>5,703</td><td>3,094 U</td></td<>	25		H	т	4,458	5,703	3,094 U
0602785A Manpower/Personnel/Training Technology 1 18,112 15,870 1 0602785A Logistics Technology 1 46,747 34,921 3 0602787A Medical Technology 1 111,404 108,820 3 0602789A TRACTOR FLOP 1 1,608 1 2,874 2 0602789A ARMY Artificial Intelligence Technology 1 1,608 2 3 7 Technology Rase 2 820,297 854,283 75 3 7 0603001A Indical Advanced Technology 2 8,655 10,489 1 3 6 6 4	26		Military Engineering Technology	-	46,285	43,443	45,879 U
6602786A Logistics Technology 1 46,747 34,921 3 6602787A Medical Technology 1 111,404 108,820 34,921 34,921 6602789A TRACTOR FLOP 1,608 1,608 1,608 1,608 7602789A ARMY Artificial Intelligence Technology 1 1,840 1,608 2,874 7602789A ARMY Artificial Intelligence Technology 2 820,297 3,700 2 7602813A TRACTOR PULL 3,000 2 3,000 3 3,000 2 603001A Logistics Advanced Technology 2 47,283 55,462 3 603002A Aviation Advanced Technology 2 47,283 55,462 3 603003A Aviation Advanced Technology 2 47,283 55,462 4 603003A Weapons and Munitions Advanced Technology 2 47,283 26,609 4 603005A Combat Vehicle and Automotive Advanced Technology 2 7,504 12,691 1	27		Manpower/Personnel/Training Technology		18,112	15,870	15,966 U
6602787A Medical Technology 1 111,404 108,820 0602788A TRACTOR FLOP 1,608 1,608 0602789A ARMY Artificial Intelligence Technology 1 1,840 1,608 Tachnology ARMY Artificial Intelligence Technology 2,874 2,874 75 Tachnology TRACTOR PULL 3,000 2 0603001A Logistics Advanced Technology 2 8,655 10,489 1 0603002A Medical Advanced Technology 2 47,283 55,462 3 0603004A Weapons and Munitions Advanced Technology 2 37,922 33,255 3 0603005A Combat Vehicle and Automotive Advanced Technology 2 44,27 61,865 4 0603005A Command, Control, Communications Advanced 2 143,963 26,609 4 1 Technology 2 1,504 12,691 1	28			-	46,747	34,921	36,241 U
6002788A TRACTOR FLOP 1,608 1,608 0602789A ARMY Artificial Intelligence Technology 1 1,840 1,608 Technology Asset 2,874 75 Technology Asset 3,000 2 0603001A Tractor Pull 3,000 2 0603003A Medical Advanced Technology 2 8,655 10,489 1 0603003A Aviation Advanced Technology 2 47,283 55,462 3 0603005A Weapons and Munitions Advanced Technology 2 37,922 33,255 4 0603005A Combat Vehicle and Automotive Advanced Technology 2 54,427 61,865 4 0603006A Command, Control, Communications Advanced 2 7,504 12,691 1	29			т	111,404	108,820	n
Tachnology ARMY Artificial Intelligence Technology 1 2,874 Tachnology Base 2,874	30			7	1,840	1,608	1,672 U
Technology Base 2 854,283 7 0602813A TRACTOR PULL 3,000 0603001A Logistics Advanced Technology 2 8,655 10,489 0603002A Medical Advanced Technology 2 47,283 55,462 0603003A Aviation Advanced Technology 2 37,922 33,255 0603005A Weapons and Munitions Advanced Technology 2 54,427 61,865 0603005A Combat Vehicle and Automotive Advanced Technology 2 143,963 26,609 0603006A Command, Control, Communications Advanced 2 7,504 12,691	31			ч		2,874	3,301 U
0602813A TRACTOR PULL 3,000 0603001A Logistics Advanced Technology 2 8,655 10,489 0603002A Medical Advanced Technology 2 47,283 55,462 0603003A Aviation Advanced Technology 2 37,922 33,255 0603005A Weapons and Munitions Advanced Technology 2 54,427 61,865 0603005A Combat Vehicle and Automotive Advanced Technology 2 143,963 26,609 0603006A Command, Control, Communications Advanced 2 7,504 12,691		Technolo	Jy Base		820,297	854,283	753,330
0603001A Logistics Advanced Technology 2 8,655 10,489 0603002A Medical Advanced Technology 2 47,283 55,462 0603003A Aviation Advanced Technology 2 37,922 33,255 0603005A Weapons and Munitions Advanced Technology 2 54,427 61,865 0603005A Combat Vehicle and Automotive Advanced Technology 2 143,963 26,609 0603006A Command, Control, Communications Advanced 2 7,504 12,691	32			~		3,000	25,882 U
0603002AMedical Advanced Technology247,28355,4620603003AAviation Advanced Technology237,92233,2550603004AWeapons and Munitions Advanced Technology254,42761,8650603005ACombat Vehicle and Automotive Advanced Technology2143,96326,6090603006ACommand, Control, Communications Advanced27,50412,691	33			7	8,655	10,489	11,289 U
0603003A Aviation Advanced Technology 2 37,922 33,255 0603004A Weapons and Munitions Advanced Technology 2 54,427 61,865 0603005A Combat Vehicle and Automotive Advanced Technology 2 143,963 26,609 0603006A Command, Control, Communications Advanced 2 7,504 12,691	34			~	47,283	55,462	ם
0603004A Weapons and Munitions Advanced Technology 2 54,427 61,865 0603005A Combat Vehicle and Automotive Advanced Technology 2 143,963 26,609 0603006A Command, Control, Communications Advanced 2 7,504 12,691	35		Aviation Advanced Technology	~	37,922	33,255	38,532 U
0603005A Combat Vehicle and Automotive Advanced Technology 2 143,963 26,609 0603006A Command, Control, Communications Advanced 2 7,504 12,691 Technology	36			7	54,427	61,865	49,074 U
0603006A Command, Control, Communications Advanced 2 7,504 12,691 Technology	37				143,963	56,609	44,825 U
	38		Command, Control, Communications Advanced Technology	~	7,504	12,691	15,350 U

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Department of the Army FY 1993 R D T & E Program

Program Program Program Program Program Program 30 06030303 Human Pactoral/Personnel/Training Advanced 2 19,110 15,672 16,900 40 06030034 Classiff of Program Program 2 5,952 5,142 6,721 50 0603103A TRACTOR HOLE Program Progr	Appr	Appropriation:	2040 A Research Development Test & Eval Army			Date:	29 Jan 1992
Number Lien		 				Thousands	of Dollars
Human Factors/Personnel/Training Advanced 2 19.110 15.672 10 10.0003A Technology Technology 2 5.952 5.442 10.0003A Technology 2 5.952 11.613 2 10.0003A 2 2.976 11.613 2 2 2 2 2 2 2 2 2	r in		Item	Act	FY 1991	FY 1992	FY 1993 C
Human Pettors/Petsonnel/Training Advanced 19,110 15,672 1					 		
060302A TRACTOR HOLE 0603012A TRACTOR HOLE 0603013A TRACTOR HOLE 0603013A TRACTOR DESCRIPTION 0603013A TRACTOR DESCRIPTION 0603013A Materials and Structures Advanced Technology 0603313A Missile and Rocket Advanced Technology 0603313A Missile and Rocket Advanced Technology 0603313A Missile and Rocket Advanced Technology 0603313A Missile and Barrier Advanced Technology 060332A TRACTOR TRAILER 0603313A Military Engineering Advanced Technology 060332A Military Engineering Advanced Technology 0603734A Military Engineering Advanced Technology 0603734A Military Engineering Advanced Technology 0603734A Chemical Biological Defense and Smoke Advanced 070754 0707557 070757 070757 070757 070757 070	33		Human Factors/Personnel/Training Advanced	7	19,110	15,672	16,900 U
0603012A TRACTOR HOLE 2 5,976 11,613 2 0603013A TRACTOR DIRT 2 7,120 100 060310A TRACTOR RED 2 7,120 100 060310A Materials and Structures Advanced Technology 2 6,264 3,025 060310A Materials and Structures Advanced Technology 2 44,001 27,770 060310A Research Immune Deficiency Syndrome (AIDS) 2 44,001 27,770 060320A Research Immune Deficiency Syndrome (AIDS) 2 6,904 7,122 060331A EW Technology 2 11,226 19,506 060332A Missile and Rocket Advanced Technology 2 11,226 19,506 060332A TRACTOR TAXIER 2 18,038 20,966 060332A TRACTOR TAXIER 2 18,038 20,966 060332A TRACTOR TAXIER 2 12,613 2,7804 060333A TRACTOR TAXIER 2 18,038 2,966 060333A	4		recuireday Classified Program	8	5,952	5,142	6,721 U
0603013A TRACTOR DIRT 100 0603101A TRACTOR RED 11,721 0603102A TRACTOR RED 11,721 0603102A Materials and Structures Advanced Technology 2 6,264 3,025 0603105A Acquired Immune Deficiency Syndrome (AIDS) 2 6,904 7,770 0603105A Acquired Immune Deficiency Syndrome (AIDS) 2 6,904 7,770 060327A Research Acquired Immune Particle Defense/Precision Strike 2 6,904 7,122 060331AA TRACTOR NAIL 2 11,226 19,506 2 060332A TRACTOR CAGE 2 11,226 19,506 2 06033B Missile and Rocket Advanced Technology 2 11,226 10,996 2 06033B TRACTOR TRAILER 2 12,559 10,996 2 20,966 2 0603360A Landmine Warfare and Barrier Advanced Technology 2 2,304 5,431 2 060374A Military Engineering Advanced Technology 2 2,304 2 </td <td>4.1</td> <td></td> <td></td> <td>~</td> <td>5,976</td> <td>11,613</td> <td>21,636 U</td>	4.1			~	5,976	11,613	21,636 U
0603103A TRACTOR RED 11,721 0603102A Materials and Structures Advanced Technology 2 6,264 3,025 0603105A Acquired Immune Deficiency Syndrome (AIDS) 2 44,001 27,770 0603105A Acquired Immune Deficiency Syndrome (AIDS) 2 6,904 7,122 060327DA EW Technology Demonstratio 2 6,904 7,122 060331AA TRACTOR NAIL 2 6,904 7,122 060331AA Directed Energy 2 11,226 19,506 2 060332AB Missile and Rocket Advanced Technology 2 11,226 19,506 2 060332AB Directed Energy 2 11,226 19,506 2 060332AB Directed Energy 2 11,226 10,996 2 0603360A Landmine Warfare and Barrier Advanced Technology 2 12,613 27,804 1 060370A Might Vision Advanced Technology 2 23,042 2,780 2 060374AB Military Engineering Advanced Techno	42			~	7,120	100	3,422 U
6603102A Materials and Structures Advanced Technology 2 6,264 3,025 0603105A Acquired Immune Deficiency Syndrome (AIDS) 2 44,001 27,770 060323BA Alobal Surveillance/Air Defense/Precision Strike 2 6,904 7,122 060327DA Fachnology Demonstratio 2 818 7,122 060337AA Tractron Nail 2 11,226 19,506 060332A Tractron Raile and Rocket Advanced Technology 2 11,226 19,506 060332A Tractron Raile 2 11,226 19,506 2 060332A Tractron Cade 2 12,539 20,966 2 060332A Tractron Tractron Trailer 3 10,996 2 2 2 06033AA Joint Service Small Arms Program 2 23,042 2,431 2 06037AA Joint Service Small Arms Program 2 4,451 5,431 2 06037AA Might Vision Advanced Technology 2 23,042 2,350 3,043	43			8		11,721	N 686
6603105A Acquired Immune Deficiency Syndrome (AIDS) 2 44,001 27,770 6603236A Global Surveillance/Air Defense/Precision Strike 2 6,904 7,122 6603270A EW Technology Demonstratio 2 81B 7,122 0603371A TRACTOR NAIL 2 11,226 19,506 060331AA Directed Energy 2 11,226 10,996 060339A TRACTOR CAGE 2 18,038 20,966 2 060330A TRACTOR TRAILER 2 18,038 20,966 2 0603360A TRACTOR CAGE 2 18,038 20,966 2 0603360A TRACTOR RAILER 2 18,038 20,966 2 0603360A Andmine Warfare and Barrier Advanced Technology 2 12,613 2,431 0603734A Night Vision Advanced Technology 2 23,042 2,620 0603734A Military Englineering Advanced Technology 2 2,350 3,043 0603759A Chemical Biological Defense and Smoke Advanced	4		Materials and Structures Advanced Technology	8	6,264	3,025	3,177 U
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0603270A Everance of Everance of Technology 2 6,904 7,122 0603271A TRACTOR NAIL 2 818 19,506 2 0603313A Missile and Rocket Advanced Technology 2 11,226 19,506 2 060331AA Directed Energy 2 18,038 20,966 2 060332A TRACTOR TRAILER 2 18,038 20,966 2 060330A TRACTOR TRAILER 2 12,613 27,804 1 060350A Landmine Warfare and Barrier Advanced Technology 2 12,613 27,804 1 060350A Joint Service Small Arms Program 2 2,4451 5,431 5,431 0603710A Night Vision Advanced Technology 2 2,350 3,043 0603734A Advanced Electronic Devices Development 2 2,350 3,043 0603759A Chemical Biological Defense and Smoke Advanced 2 4,320 3,180	46		Global Cum Strike Global Precision Strike	8			50,000 U
0603371A TRACTOR NAIL 2 818 0603313A Missile and Rocket Advanced Technology 2 11,226 19,506 2 0603314A Directed Energy 2 18,038 20,966 2 060332A TRACTOR CAGE 2 18,038 20,966 2 0603393A TRACTOR TRAILER 2 10,996 2 0603607A Landmine Warfare and Barrier Advanced Technology 2 12,613 27,804 1 0603407A Joint Service Small Arms Program 2 4,451 5,431 2 060373AA Military Engineering Advanced Technology 2 23,042 22,620 2 0603742A Advanced Electronic Devices Development 2 4,320 3,043 3 0603759A Chemical Biological Defense and Smoke Advanced 2 4,320 3,180	47		rechinology Demonstratio	N	6,904	7,122	8,936 U
0603313A Missile and Rocket Advanced Technology 2 11,226 19,506 2 0603314A Directed Energy 2 18,038 20,966 2 0603322A TRACTOR TRAILER 2 18,038 20,966 2 0603303A TRACTOR TRAILER 2 12,613 27,804 1 0603505A Landmine Warfare and Barrier Advanced Technology 2 4,451 5,431 0603710A Joint Service Small Arms Program 2 4,451 5,431 0603710A Night Vision Advanced Technology 2 23,042 22,620 2 0603734A Military Engineering Advanced Technology 2 3,342 4,036 4,036 0603759A Chemical Biological Defense and Smoke Advanced 2 4,320 3,180	48			7	818		n
0603314A Directed Energy 2 21,559 2 20,966 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 <	4			7	11,226	19,506	21,165 U
0603322A TRACTOR CAGE 20,966 2 0603393A TRACTOR TRAILER 10,996 10,996 0603606A Landmine Warfare and Barrier Advanced Technology 2 12,613 27,804 1 0603607A Joint Service Small Arms Program 2 4,451 5,431 5,431 0603710A Night Vision Advanced Technology 2 23,042 22,620 2 0603734A Military Engineering Advanced Technology 2 2,350 3,043 2 0603742A Advanced Electronic Devices Development 2 5,661 4,036 0603759A Chemical Biological Defense and Smoke Advanced 2 4,320 3,180	20			7	21,559		n
0603393A TRACTOR TRAILER 10,996 0603606A Landmine Warfare and Barrier Advanced Technology 2 12,613 27,804 1 0603607A Joint Service Small Arms Program 2 4,451 5,431 5,431 0603710A Night Vision Advanced Technology 2 23,042 22,620 2 0603734A Military Engineering Advanced Technology 2 2,350 3,043 0603742A Advanced Electronic Devices Development 2 5,661 4,036 0603759A Chemical Biological Defense and Smoke Advanced 2 4,320 3,180	21			7	18,038	20,966	24,455 U
0603606A Landmine Warfare and Barrier Advanced Technology 2 12,613 27,804 1 0603607A Joint Service Small Arms Program 2 4,451 5,431 0603710A Night Vision Advanced Technology 2 23,042 22,620 2 0603734A Military Engineering Advanced Technology 2 2,350 3,043 060375A Advanced Electronic Devices Development 2 5,661 4,036 0603759A Chemical Biological Defense and Smoke Advanced 2 4,320 3,180	52			7		10,996	Đ
0603607AJoint Service Small Arms Program24,4515,4310603710ANight Vision Advanced Technology223,04222,62020603734AMilitary Engineering Advanced Technology22,3503,0430603742AAdvanced Electronic Devices Development25,6614,0360603759AChemical Biological Defense and Smoke Advanced24,3203,180Technology	53			7	12,613	27,804	19,133 U
0603710ANight Vision Advanced Technology223,04222,62020603734AMilitary Engineering Advanced Technology22,3503,0430603742AAdvanced Electronic Devices Development25,6614,0360603759AChemical Biological Defense and Smoke Advanced24,3203,180Technology	54		Joint Service Small Arms Program	7	4,451	5,431	5,772 U
0603734A Military Engineering Advanced Technology 2 2,350 3,043 0603742A Advanced Electronic Devices Development 2 5,661 4,036 0603759A Chemical Biological Defense and Smoke Advanced 2 4,320 3,180 Technology	55		Night Vision Advanced Technology	7	23,042	22,620	28,436 U
0603742A Advanced Electronic Devices Development 2 5,661 4,036 0603759A Chemical Biological Defense and Smoke Advanced 2 4,320 3,180 Technology	26			~	2,350	3,043	3,404 U
0603759A Chemical Biological Defense and Smoke Advanced 2 4,320 3,180 Technology	57			8	5,661	4,036	6,645 U
	28		U	7	4,320	3,180	3,496 U

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Department of the Army

Exhibit R-1	
FY 1993 R D T & E Program	

Appr	Appropriation: 2040 A	2040 A Research Development Test & Eval Army			Date: 2	29 Jan 1992
			 		Thousands	of Dollars
Line	Frogram Line Element No Number	Item	Act	FY 1991	FY 1992	FY 1993 C
8	0603772A	Advanced Tactical Computer Science and Technology	7	5,302	8,624	22,441 U
	Advanced	Advanced Technology Development		504,461	411,742	431,680
9	0603392A	Anti-Satellite Weapon (ASAT)	æ	191,76	51,000	24,768 U
19	0102814A	Special Programs	æ			Ŋ
62	0102830A	Classified Program	Э			ກ
63	0102831A	Classified Program	۳			:
64	0303152A	World-Wide Military Command and Control Systems, Information System	м			Ð
	Strategic	Strategic Programs		159,053	73,186	43,777
99	0603018A	Tractor Tread	4			9,199 U
99	0603019A	Tractor Dump	4			4,269 U
67	0603053A	Future Command and Control Vehicle	4		14,981	21,565 U
89	0603303A	Surface-to-Surface Missile Rocket System	4	41,731	46,519	ם
69	0603393A	TRACTOR TRAILER	4	5,135		'n
70	0603604A	Nuclear Munitions - Adv Dev	4	3,346	3,351	Ω
71	. 0603612A	Advanced Anti-Tank Weapon Systems	4	53,446	136,828	ח
72	0603619A	Landmine Warfare and Barrier - Adv Dev	4	630	11,456	13,497 U
73	0603627A	Smoke, Obscurant and Equipment Defeating Systems	4	6,430	13,932	18,941 U
74	0603639A	Armame	4			n
75	0603640A	Artillery Propellent Development	4		7,990	J,057 U

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Department of the Army FY 1993 R D T & E Program

Exhibit R-1

Appro	Appropriation:	2040 A Research Development Test & Eval Army			Date: 2	29 Jan 1992
! !					Thousands	of Dollars
Line	Frogram Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
76	0603645A	Armored System Modernization - Adv Dev	4		299,817	367,262 U
77	0603649A	Engineering Mobility Equipment - Adv Dev	4			12,155 U
78	0603713A	Army Data Distribution System	4	15,575	22,506	13,409 U
79	0603730A	Tactical Surveillance System - Adv Dev	4	7,369	16,740	14,937 U
90	0603745A	Tactical Electronic Support Systems - Adv Dev	♂	4,768	3,348	3,107 U
81	0603746A	Single Channel Ground and Airborne Radio System	4		171	214 U
82	0603747A	(Simucans) Adv Dev Soldier Support and Survivability	4	8,584	8,436	7,921 U
83	0603754A	Classified Program - Adv Dev	⋖*			Þ
84	0603757A	Forward Area Air Defense (FAAD) System	4	94,849	107,252	n
85	0603766A	Tactical Electronic Surveillance System - Adv Dev	4	13,301	15,768	14,813 U
86	0603774A	Night Vision Systems Advanced Development	4	2,631	5,438	7,868 U
87	0603801A	Aviation - Adv Dev	4	7,373	14,890	14,029 U
88	0603802A	Weapons and Munitions - Adv Dev	4	8,621		n
8 0	0603804A	Logistics and Engineer Equipment - Adv Dev	4	14,803	19,967	15,304 U
Ûę	0603805A	Combat Service Support Computer System Evaluation	∢	11,112	28,573	19,805 U
91	0603806A	and marysis Chemical/Biological Defense Equipment - Adv Dev	4	42,714	36,381	36,033 U
92	0603807A	Medical Systems - Adv Dev	4	28,991	32,319	Þ
93	0603808A	Classified Program	4	16,994	898'6	Þ
94	0603810A	Advanced Missile System-Heavy	4	1,000		n
95	0633811A	Meteorological Data Systems	4		3,456	4,288 U

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Department of the Army FY 1993 R D T & E Program

Appro	Appropriation: 2040 A	2040 A Research Development Test & Eval Army			Date:	29 Jan 1992
					Thousands	Thousands of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
96	0603813A	TRACTOR PULL	4	54.460	10,741	ח
97	0604202A	Aircraft Weapons	4	5,537	2,996	ח
86	0604220A	Armed, Deployable OH-58D	4	21,553	9,287	Ω
66	0604223A	Light Armed Scout Helicopter	4	333,657	538,756	443,007 U
100	0604270A	EW Development	4	62,738	196,329	D
101	0604321A	All Source Analysis System	4	63,768	114,675	50,754 U
102	0604603A	Nuclear Munitions - Eng Dev	4	2,826	4,362	4,801 U
103	0604604A	Medium Tactical Vehicles	4	6,816	11,815	2,941 U
104	0604609A	Smoke, Obscurant and Equipment Systems - Eng Dev	4	12,247	12,920	11,309 U
105	0604611A	JAVELIN (AAWS-M)	4	75,852	119,784	91,440 U
106	0604619A	Landmine Warfare	4	26,844	35,054	24,187 U
107	0604622A	Heavy Tactical Vehicles	4		5,459	n 196
108	0604630A	Advanced Tank Cannon (ATAC)	4	26,612	39,950	41,526 U
109	0604633A	Air Traffic Control	4		8,924	2,463 U
110	0604645A	Armored Systems Modernization (ASM)-Eng. Dev.	4	4,937	42,884	76,182 U
111	0604649A	Engineering Mobility Equipment	4			2,238 U
112	0604709A	Identification-Friend-or-Foe - Eng Dev	4	455		ם
113	0604710A	Night Vision Systems - Eng Dev	4	18,681	34,872	25,325 U
114	0604713A	Combat Feeding, Clothing, and Equipment	4	19,065	28,601	9,463 U

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Department of the Army FY 1993 R D T & E Program

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Appr	Appropriation: 2040	2040 A Research Development Test & Eval Army			Date	29 Jan 1992
					Thousands	of Dollars
Line	Frogram Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
116	0604723A	Special Purpose Detectors	4	501		Ð
117	0604726A	Integrated Meteorological Support System	4		4,467	958 U
118	0604740A	Tactical Surveillance System - Eng Dev	4	6,579	21,666	20,036 U
119	0604741A	Air Defense Command, Control and Intelligence -	4	55,799	31,810	40,505 U
120	0604746A	Eng Dev Automatic Test Equipment Development	4	8,219	18,178	8,461 U
121	0604754A	Classified Program - Eng Dev	4	171,939		n
122	0604766A	Tactical Electronic Surveillance System - Eng Dev	4	15,803	20,702	34,136 U
123	0604767A	TRACTOR JEWEL	4		103,828	74,206 U
124	0604768A	TRACTOR MARK	4	26,755	115,734	121,459 U
125	0604769A	TRACTOR HELM	4		103,243	ם
126	0604770A	Joint Surveillance/Target Attack Radar System	4	43,100	68,635	31,213 U
127	0604801A	Aviation - Eng Dev	4	16,583	13,987	16,229 U
128	0604802A	Weapons and Munitions - Eng Dev	4	10,974	166	5,113 U
129	0604804A	Logistics and Engineer Equipment - Eng Dev	4	22,378	18,108	22,083 U
130	0604805A	Command, Control, Communications Systems - Eng De	4	2,703	2,991	7,566 U
131	0604806A	Chemical/Biological Defense Equipment - Eng Dev	4	63,902	48,525	41,551 U
132	0604807A	Medical Materiel/Medical Biological Defense	4	16,533	26,153	Þ
133	0604808A	Landmine Warfare/Barrier - Eng Dev	4	7,565	12,291	2,947 U
134	0604810A	Fiber Optic Guided Missile - Eng Dev	4	68,325		ם
135	0604812A	Classified Program	4	13,255	46,456	D

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Appr	Appropriation: 2	2040 A Research Development Test & Eval Army			Date:	29 Jan 1992
			 		Thousands	of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
136	0604814A	Sense and Destroy Armament Missile - Eng Dev	4	107,863	150,028	63,037 U
137	0604816A	LONGBOW - Eng Dev	4	196,969	232,167	281,802 U
138	0604817A	TRACTOR CRASH/BALL	4	11,485	32,741	27,570 U
139	0604818A	Army Tactical Command & Control Systems (ATCCS)	4	24,772	23,886	20,575 U
140	0604819A	Eng Dev LOSAT	4		3,000	122,848 U
141	0604820A	Radar Development	∢		39,870	18,656 U
142	0605710A	Joint CB Point of Contact, Test and Assessment	4	6,249	5,861	5,702 U
143	0203726A	Adv Field Artillery Tactical Data System	4	40,063	48,143	41,632 U
144	0203735A	Combat Vehicle Improvement Programs	4	117,052	29,624	22,558 U
145	0203740A	Maneuver Control System	4	17,835	36,393	28,467 U
146	0203743A	155mm Self-Propelled Howitzer Improvements	4	8,808		D
147	0203744A	Aircraft Modifications/Product Improvement	4		8,901	4,821 U
148	0203752A	riograms Aircraft Engine Component Improvement Program	4	7,055	6,316	0,676 U
149	0203755A	Field Artillery Ammunition Support Vehicle	4		810	Þ
150	0203801A	Missile/Air Defense Product Improvement Program	4	53,992	57,940	56,315 U
151	. 0203802A	Other Missile Product Improvement Programs	4	52,602	62,433	16,429 U
152	0203806A	TRACTOR RIG	4	14,385	13,017	5,826 U
153	0203808A	TRACTOR CARD	4	16,078	7,437	1,011 ע
154	0207316A	TACIT RAINBOW	₹	87,825		Þ
155	0208010A	Joint Tactical Communications Program (TRI-TAC)	4	6,940	4,966	7,592 U
	Tactical Programs	Programs		2,670,165	3,613,679	2,748,074
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Department of the Army FY 1993 R D T & E Program

Exhibit R-1

Date: 29 Jan 1992 Appropriation: 2040 A Research Development Test & Eval Army

			1		Thousands	Thousands of Dollars
Line	Frogram Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
156	0604716A	Terrain Information - Eng Dev	ĸ	10,623	15,062	12,171 U
157	0604778A	Positioning Systems Development	2	6,305	3,957	9,573 U
158	0301359A	Special Army Program	S			ū
159	0303140A	Information Systems Security Program	Ŋ	10,323	6,615	0,470 U
160	0303142A	SATCOM Ground Environment	ß	26,850	113,411	137,027 U
191	0305127A	Foreign Counterintelligence Activities	5			D
162	0305889A	Intelligence Support to OSD Counternarcotics	ĸ	13,271		D
	Intelligence and	ice and Communications		86,562	143,954	176,759
163	0605103A	Rand Arroyo Center	9	22,564	16,949	20,164 U
164	0605301A	Army Kwajalein Atoll	9	175,672	180,700	184,454 U
165	0605502A	Small Business Innovative Research	9	51,711		n
166	0605601A	Army Test Ranges and Facilities	9	187,186	175,746	160,243 U
167	0605602A	Army Technical Test Instrumentation and Targets	9	74,060	88,810	76,499 U
168	0605603A	Army User Test Instrumentation and Threat	9	44,699	45,767	46,318 U
169	0605604A	Simulators Technology and Vulnerability Assessment	9	39,072	48,550	44,285 U
170	0605605A	DOD High Energy Laser Test Facility	9	30,807	28,355	17,852 U
171	0605702A	Meteorological Support to RDT&E Activities	9	22,699	21,153	18,832 U
172	0605706A	Materiel Systems Analysis	9	23,548	23,755	22,858 U
173	0605709A	Exploitation of Foreign Items	9	17,454	29,136	19,650 U

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Department of the Army FY 1993 R D T & E Program

Exhibit R-1

Appr	Appropriation: 2040 A	2040 A Research Development Test & Eval Army			Date:	Date: 29 Jan 1992
 		,	 		Thousands	of Dollars
Line No	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
174	0605712A	Support of Operational Testing	9	58,496	66,523	00,375 U
175	0605801A	Programwide Activities	9	181, 68	95,880	86,420 U
176	0605802A	International Cooperative Research and Developmen	9	1,881	1,504	1,925 U
177	0605803A	Technical Information Activities	9	8,076	20,660	23,429 U
178	0605805A	Munitions Standardization, Effectiveness and	9	12,630	12,984	16,783 U
179	0605810A	Safety RDT&E Support for Nondevelopmental Items	9	8,381	6,340	6,092 U
180	0605856A	Environmental Compliance	9		52,398	42,507 U
181	. 0605872A	Productivity Investments	9	18,920	22,493	7,547 U
182	0605876A	Minor Construction (RPM) - RDT&E	9		4,053	3,900 U
183	0605878A	Maintenance and Repair (RPM) - RDT&E	9		75,885	63,793 U
184	1 0605894A	Real Property Maintenance - RDT&E	9	187,050		D
185	0605896A	Base Operations - RDT&E	9	208,039	312,122	308,567 U
186	0605898A	Management Headquarters (Research and Development	9	15,154	14,721	8,661 U
187	0708011A	Industrial Preparedness	9	30,841	12,018	19,703 U
188	A 0909998	Financing for Cancelled Account Adjustments	9	4,641		n
	Defensewi	Defensewide Mission Support		1,332,712	1,356,502	1,260,857
Total		Research Development Test & Eval Army		5,573,250	6,453,346	5,414,477

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Exhibit R-1

ns	Summary		Date:	29 Jan 1992
			Thousands	Thousands of Dollars
	,	FY 1991	FY 1992	FY 1993
Summary Recap of Research Categories				
Research Fundament		390,233	395,180	473,569
Exploratory Development Advanced Development	2	484,737 2,206,271	504,152 2,360,843	622,534 2,530,011
Engineering Development Management and Support	7	2,637,230 610,937	2,790,892 606,598	1,670,408
Research and Development (FYDP Program 6) Operational Systems Development	9 1	6,329,408 1,659,945	6,657,665 1,892,185	5,953,864 2,563,914
Total Research Development Test & Eval Navy	7	7,989,353	8,549,850	8,517,778
Summary Recap of Budget Activities				
Technology Base Advanced Technology Develonment		874,970	899,332	1,096,103
Strategic Programs	•	245,728	251,777	284,328
actical frograms Intelligence and Communications Defensewide Mission Support	4	4,961,102 859,009 814,092	5,620,502 858,567 706,167	5,103,757 801,618 813.439
Total Research Development Test & Eval Navy		7,989,353	8,549,850	8,517,778
Summary Recap of FYDP Programs				
Strategic Forces General Purpose Forces		151,480	164,498	187,204
Intelligence and Communications		736,147	750,626	705,084
Research and Development (FYDP Program 6) Central Supply and Maintenance	•	6,329,408 110,069	6,657,665 20,356	5,953,864 45,384
Total Research Development Test & Eval Navy		7,989,353	8,549,850	8,517,778

Department of the Navy FY 1993 R D T & E Program

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Appr	Appropriation: 1319	1319 N Research Development Test & Eval Navy			Date:	29 Jan 1992
				 	Thousands	of Dollars
Line No	Program Blement Number	Item	Act	FY 1991	FY 1992	FY 1993 C
7	1 0601152N	In-House Independent Laboratory Research	-	24,135	14,000	16,180 U
7	NES11090 2	Defense Research Sciences	-	366,098	381,180	457,389 U
(T)	3 0602111N	Anti-Air Warfare/Anti-Surface Warfare Technology	7	686'69	67,933	86,931 U
4	4 0602121N	Surface Ship Technology	7	16,505	31,922	26,113 U
un.	5 0602122N	Aircraft Technology	1	19,606	18,896	25,821 U
9	S 0602131M	Marine Corps Landing Force Technology	т	16,906	17,952	21,019 U
7	7 0602232N	Command, Control, and Communications Technology	7	17,802	14,918	22,627 U
35	8 0602233N	Mission Support Technology	1	34,505	29,818	36,118 U
6	9 0602234N	Systems Support Technology	~	71,723	77,048	93,810 U
10	0602270N	Electronic Warfare Technology	-	12,936	13,906	18,474 U
11	1 0602314N	Undersea Surveillance & Weapons Technology	1	125,807	130,024	146,194 U
12	2 0602315N	Mine and Special Warfare Technology	н	19,750	20,445	45,536 U
13	3 0602323N	Submarine Technology	7	14,218	17,722	21,476 U
14	4 0602324N	Nuclear Propulsion	п	14,575	11,958	15,876 U
15	5 0602435N	Ocean and Atmospheric Support Technology	~	32,641	44,610	49,593 U
16	5 0602936N	Independent Exploratory Development	-	17,774	7,000	12,946 U
	Technology Base	γ Base		874,970	899,332	1,096,103
17	7 0603217N	Air Systems Advanced Technology Development	8	18,535	8,936	20,079 U
18	3 0603238N	Global Surveillance/Air Defense/Precision Strike Technology Demonstratio	7			20,000 U

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Department of the Navy FY 1993 R D T & E Program

		Department of FY 1993 R D T	s E	Navy Program		Exhibit R-1
Appr	Appropriation: 1319	1319 N Research Development Test & Eval Navy			Date:	29 Jan 1992
!					Thousands	of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
19	0603270N	Advanced Electronic Warfare Technology	8		4,894	30,814 U
20	0603508N	Ship Propulsion System	8	800	4,509	4,501 U
21	0603555N	Undersea Superiority Technology Demonstration	7			100,000 U
22	0603573N	Electric Drive	8	43,799		Þ
23	0603640M	Marine Corps Advanced Technology Demonstration	7	4,582	17,430	23,138 U
24	N901E090	(ATD) Medical Development	7	23,634	36,108	4,250 U
25	NC07E090	Manpower, Personnel and Training Adv Tech Dev	7	16,900	13,107	18,458 U
26	0603712N	Generic Logistics R&D Technology Demonstrations	7	27,429	14,075	16,551 U
27	0603732M	Marine Corps Advanced Manpower/Training Systems	7	3,066	3,285	3,659 U
28	0603747N	Advanced Anti-Submarine Warfare Technology	7	16,106	42,711	49,666 U
29	0603782N	Shallow Water MCM Demos	8	16,580	4,977	10,625 U
30	0603792N	Advanced Technology Transition	8	63,021	62,108	84,682 U
31	. 0603794N	C3 Advanced Technology	7		1,365	2,110 U
	Advanced	Advanced Technology Development		234,452	213,505	418,533
32	0603451N	Tactical Space Operations	m	1,271	4,153	2,015 U
33	060358BN	SSBN Survivability	٣	14,401	17,472	17,369 U
34	1 0603735N	WWMCCS Architecture Support	m		166	1,700 U
35	0604363N	TRIDENT II	m	68,651	53,251	U 868,23
36	0605856N	Strategic Technical Support	m	4,393	4,654	4,886 U

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Appr	Appropriation: 1	1319 N Research Development Test & Eval Navy			Date: 2	29 Jan 1992
			 		Thousands	of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
37	0101221N	Fleet Ballistic Missile System	m	23,028	7,746	5,135 U
38	0101224N	SSBN Security Technology Program	æ	45,119	54,429	72,553 U
39	0101226N	Submarine Acoustic Warfare Development	m	30,897	36,347	40,694 U
40	0101228N	Trident I	т	34,263	35,446	24,892 U
41	0101401N	Extremely Low Frequency (ELF) Communications	æ	103	533	n 069
42	0101402N	Navy Strategic Communications	т	17,210	29,198	42,435 U
43	0102427N	Naval Space Surveillance	۳	098	199	0 SOS
44	0303131N	Minimum Essential Emergency Communications	m	1,552	2,350	1,350 U
45	0303152N	<pre>Network (MEECN) World-Wide Military Command and Control Systems, Information System</pre>	m	3,980	4,408	3,906 U
	Strategic Programs	Programs		245,728	251,777	284,328
46	N601E090	Integrated Aircraft Avionics	4	4,946	24,925	23,546 U
47	0603207N	Air/Ocean Tactical Applications	4	7,387	7,263	7,577 U
48	0603208N	T-45 Training System	4	14,703	23,055	32,028 U
49	0603216N	Air Crew Systems Technology	4	13,260	15,270	n 769,6
50	0603228N	CV ASW Module	4	3,580	3,940	3,621 U
15	0:03231N	Next Generation Fighter	4	38,168	2,000	Ð
52	0503254N	Air ASW	→	11,108	8,284	10,785 U
53	0603260N	Airborne Mine Countermeasures	4	15,149	15,083	18,672 U
54	0603261N	Tactical Airborne Reconnaissance	4	28,516	15,333	15,356 U

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Department of the Navy FY 1993 R D T & E Program

		Department of FY 1993 R D T	the E E	Navy Program		Exhibit R-1
Appr	Appropriation: 1319	1319 N Research Development Test & Eval Navy			Date: '	29 Jan 1992
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	 	f	Thousands	of Dollars
Line No	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
55	0603262N	Aircraft Survivability and Vulnerability	4	9,227	12,831	13,905 U
99	0603306N	Advanced A/L Air-to-Surface Missile System	4	2,100		ם
57	0603318N	Advanced Surface-to-Air Missile	4	43,056	34,504	18,029 U
58	N61EE090	NATO AAW Systems	4	4,428		n
59	0603320N	Low Cost Anti-Radiation Seeker	4	10,400	4,000	D
9	0603321N	Advanced Air-to-Air Missile (AAAM)	4	101,024	88,476	n
61	0603382N	Battle Group AAW Coordination	4	3,888		ת
62	0603502N	Surface Mine Countermeasures	4	21,580	29,381	44,473 U
63	0603504N	Advanced Submarine ASW Development	4	32,542	30,902	33,810 U
64	1 0603506N	Surface Ship Torpedo Defense	4	51,506	57,036	28,479 U
9	0603512N	Shipboard Aviation Systems	4	8,422	15,751	18,079 U
99	NE15E090	Shipboard System Component Development	4	10,660	27,844	31,843 U
67	0603514N	Ship Combat Survivability	4	29,678	25,434	23,676 U
68	0603522N	Submarine Arctic Warfare Support Equipment Progra	4	2,836	2,128	4,153 U
69	0603525N	PILOT FISH	4	53,614	54,215	36,676 U
7.0	0603528N	Non-Acoustic Anti-Submarine Warfare (ASW)	4	15,973		12,983 U
11	. 0603529N	Advanced ASW Target	4	4,884	16,832	16,499 U
72	0603536N	RETRACT JUNIPER	4	40,707	50,349	48,725 U
73	0603542N	Radiological Control	4	4,024	2,857	3,795 U
74	1 0603553N	Surface ASW	4	44,418	67,293	70,194 U

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Department of the Navy FY 1993 R D T & E Program

Exhibit R-1

Date: 29 Jan 1992	
propriation: 1319 N Research Development Test & Eval Navy	

Appr	opriation:	Appropriation: 1319 N Research Development Test & Eval Navy			Date:	Date: 29 Jan 1992
!				1	Thousands	of Dollars
Line No	Program Line Element No Number	Item	Act	FY 1991	FY 1992	FY 1993 C
75	0603561N	Advanced Submarine System Development	マ	51,220	58,380	154,967 U
76	0603562N	Submarine Tactical Warfare Systems	4	8,303	016'9	7,349 U
77	0603564N	Ship Development	4	8,636	4,963	11,945 U
78	0603570N	Advanced Nuclear Power Systems	4	80,094	79,487	U 601,88
79	0603573N	Electric Drive	4	9,184	39,254	09,177 U
80	0603576N	CHALK EAGLE	4	113,839	133,852	U 961,796 U
81	0603582N	Combat System Integration	4	10,027	879'6	10,139 U
82	0603591N	Joint Advanced Systems	4	200,162	176,096	106,783 U
83	0603601N	Mine Development	4	3,692	8,625	632 U
84	N603E090	Conventional Munitions	4	52,633	42,854	62,317 U
85	0603610N	Advanced Warhead Development (MK-50)	4	5,108	6,587	9,205 U
98	0603611M	Marine Corps Assault Vehicles	4	34,211	41,550	82,126 U
87	0603612M	~	4	3,592		3,607 U
88	0603634N	Dev Tactical Nuclear Development	4	8,575	3,970	7,948 U
8	0603635M	Marine Corps Ground Combat/Support System	4	8,713	9,262	10,421 U
90	0603654N	Joint Service Explosive Ordnance Development	4	8,807	8,182	0,519 U
91	0603656N	Advanced Minor Caliber Gun	4	5,412	2,500	3,836 U
92	N169E090	MK 48 ADCAP - Adv Dev	4	59,231	14,687	79,553 U
93	0603702N	Ocean Engineering Systems Development	4	2,225	1,639	1,340 U
94	0603704N	ASW Oceanography	4	9,658	9,796	8,748 U

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Department of the Navy FY 1993 R D T & E Program

Exhibit R-1

Appr	Appropriation: 1319	1319 N Research Development Test & Eval Navy			Date:	29 Jan 1992
		, , , , , , , , , , , , , , , , , , ,	! ! ! !		Thousands	of Dollars
Line	Program Line Element No Number	Item	Act	FY 1991	FY 1992	FY 1993 C
9 5	0603708N	ASW Signal Processing	4	28,074	27,562	29,474 U
96	0603709N	Advanced Marine Biological System	4	5,636	4,804	4,731 U
97	0603711N	Fleet Tactical Development and Evaluation Program	4	7,093	6,107	5,628 U
96	0603713N	Ocean Engineering Technology Development	∢•	13,945	15,480	12,589 U
66	NC17E090	Command and Control Systems	4	21,398	8,902	6,165 U
100	0603724N	Navy Energy Program	4	7,436	4,678	5,359 U
101	0603725N	Facilities Improvement	4	1,015	462	1,594 U
102	0603726N	Merchant Ship Naval Augmentation Program	4		1,782	1,843 U
103	0603729M	Marine Corps Combat Services Support	₹	1,615		n
104	0603734N	CHALK CORAL	4	36,771	66,708	65,054 U
105	0603737N	LINK HAZEL	4	2,548	11,477	24,525 U
706	0603740N	LINK LAUREL	4	102,259	38,701	n
107	0603746N	RETRACT MAPLE	4	221,529	143,665	151,112 U
108	0603748N	LINK PLUMERIA	4	7,179	20,725	21,044 U
109	0603750N	CHALK WEED	4	1,820	1,354	2,729 U
110	0603751N	RETRACT ELM	4	105,313	145,949	173,010 U
111	0603752N	CHALK POINSETTIA	4		1,606	6,256 U
112	0603755N	Ship Self Defense	4		221,000	160,408 U
113	NE9163N	Warfare Systems Architecture and Engineering	4	8,221	7,289	8,324 U
114	0603785N	Anti-Submarine Warfare Environmental Acoustic Support	4	17,178	17,312	17,831 U

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Department of the Navy FY 1993 R D T & E Program

Exhibit R-1	Date: 29 Jan 1992
FY 1993 R D T & E Program	Appropriation: 1319 N Research Development Test & Eval Navy

	(Thousands	of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
115	0603787N	Special Processes	₹	39,867	54,746	33,853 U
116	0603795N	Gun Weapon System Technology	4		5,134	7,935 U
117	0604203N	Standard Avionics Development	∢	7,444	11,439	11,994 U
118	0604211N	IPP System Development	4	8,617	31,975	16,905 U
119	0604212N	LAMPS	4	16,562	30,090	31,840 U
120	0604213N	Helicopter Development	4	14,302	11,326	15,117 U
121	0604214N	AV-8B Aircraft - Eng Dev	4	30,167	9,203	11,053 U
122	0604215N	Support Equipment	4	22,229	9,928	18,488 U
123	0604217N	S-3 Weapon System Improvement	4			1,154 U
124	0604218N	Air/Ocean Equipment Engineering	4	2,631	2,748	2,926 U
125	0604219N	Airborne ASW Developments	4	12,008	19,676	40,709 U
126	0604221N	P-3 Modernization Program	4	68,451	39,551	35,473 U
127	0604233N	ATA/AX	4	156,334		165,583 U
128	0604260N	C/MH-53E	4	17,690	9,167	12,456 U
129	0604261N	Acoustic Search Sensors	❖	34,794	26,636	47,530 U
130	0604262N	V-22A	4	234,608	790,000	n
131	0604264N	Air Crew Systems Development	4	18,111	21,207	18,246 U
132	0604265N	Air Launched Saturation System (ALSS)	4		17,000	D
133	0604268N	Aircraft Engine Component Improvement Program	4	36,715	49,649	05,973 U
134	0604270N	EW Development	4	147,807	107,994	136,903 U

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Department of the Navy FY 1993 R D T & E Program

Exhibit R-1

Program Prog		מייון זמר זמויי	Applopriation: 1319 M Mesenich Development rest a Eval Mavy	1 1 1 1 1 1 1			
Number		1				Thousands	ot
0604301N MK 92 Fire Control System Upgrade 4 7,321 2,000 0604303N ABGIS Area Air Defense Engineering 4 9,570 7,853 060431AN Abdanced Medium Range Air-to-Air Missile (AMRAAM) 4 9,575 2,599 060431AN Advanced Medium Range Air-to-Air Missile (AMRAAM) 4 6,335 9,742 060435AN Advanced Medium Range Air-to-Air Missile (AMRAAM) 4 5,743 6,194 060435AN Advanced Medium Range Air-to-Air Missile (AMRAAM) 4 5,743 6,194 060436AN Actor SEA SPARROW 4 5,743 6,194 6,194 060436AN TOMAHAMK - Theater Missile Improvements 4 12,167 33,128 6,000 060436AN STAN-68B Class Vertical Launch System 4 12,468 5,000 6,000 06043AN STAN-68B Class Vertical Launch System 4 11,664 9,915 6,000 06043AN STAN-68B Class Vertical Launch System 4 11,664 9,915 6,000 06043AN Submarine Sonar Development <	Line No		Item	Act	FY 1991	FY 1992	FY 1993 C
0604303N ABCIS Area Air Defense 4 9,570 7,853 0604303N ABCIS Combat System Engineering 4 91,613 90,771 8 0604314N Advanced Medium Range Air To-Air Missile (AMFAAM) 4 5,559 2,599 0604358N Close-In Weapon System (PHALANX) 4 6,335 9,142 060436N Nato Sax SPARROW 4 6,335 9,142 060436N Standard Missile Improvements 4 5,743 6,134 060436N Standard Missile Improvements 4 12,167 33,128 060436N Standard Missile Improvements 4 12,468 5,000 060430N Standard Missile Improvements 4 12,468 5,000 060430N Standard User United Missile Improvements 4 12,468 5,000 060430N Standard User United Missile Improvements 4 11,664 9,915 060450N Submarine Sonar Development 4 11,664 9,915 060450N Air Control 4 13,949	135			₫.	7,321	2,000	1,941 U
0604307N ABCIS Combat System Engineering 4 91,613 90,771 8 0604314N Advanced Medium Range Air to-Air Missile (AMRAAM) 4 3,575 2,599 0604358N Close-In Weapon System (PHALANX) 4 6,135 9,142 060436N Standard Missile Improvements 4 48,014 36,540 3,128 060436N Standard Missile Improvements 4 12,167 33,128 33,128 060436N Standard Missile Improvements 4 12,468 3,030 5,000 060437N Standard Missile Improvements 4 12,468 3,030 5,000 060437N Standard Missile Improvements 4 12,468 3,030 5,000 060437N Standard Upgrade 4 11,064 9,915 10,000 060430N Submarine Sonar Development 4 11,064 9,915 10,000 060450N Submarine Sonar Development 4 13,806 6,587 10,000 060450N Navy Standard Signal Processors 4 </td <td>136</td> <td></td> <td>AEGIS Area Air Defense</td> <td>4</td> <td>0,520</td> <td>7,853</td> <td>7,278 U</td>	136		AEGIS Area Air Defense	4	0,520	7,853	7,278 U
0604314N Advanced Medium Range Air-to-Air Missile (AMRAAM) 4 3,575 2,599 0604358N Close-In Weapon System (PHALANX) 4 6,335 9,142 060436N Close-In Weapon System (PHALANX) 4 5,743 6,194 060436N Standard Missile Improvements 4 12,167 33,128 060436N TOMAHAWK - Theater Missile 4 12,167 33,128 060437N Syn-68B Class Vertical Launch System 4 12,468 5,000 060437N Syn-68B Class Vertical Launch System 4 12,468 16,200 060437N Nuw Threat Upgrade 4 11,064 9,915 060437N Syn-68B Class Vertical Launch System 4 11,064 9,915 0604502N Submarine Communications 4 11,064 9,915 0604503N Submarine Sonar Development 4 11,215 13,886 0604504N Air Control 4 13,806 6,587 0604506N Abar Standard Signal Processors 4 4,590 7,986 <td>137</td> <td></td> <td>AEGIS Combat System Engineering</td> <td>4</td> <td>61,613</td> <td>177,06</td> <td>89,902 U</td>	137		AEGIS Combat System Engineering	4	61,613	177,06	89,902 U
0604358N Close-In Weapon System (PHALANX) 4 6,335 9,142 060436N Standard Missile Improvements 4 5,743 6,194 060436N Standard Missile Improvements 4 48,014 36,540 3 060436N ToMAHAWR - Theater Missile Improvements 4 12,167 33,128 3 060437N ToMAHAWR - Theater Missile Improvements 4 12,167 33,128 3 060437N ToMAHAWR - Theat Upgrade 4 11,064 9,915 3 060437N Ni-w Threat Upgrade 4 11,064 9,915 3 0604502N Submarine Communications 4 11,215 13,888 1 0604502N Submarine Sonar Development 4 11,215 13,888 1 0604502N Air Control 4 13,806 6,587 1 0604503N Air Control 4 20,134 20,321 1 0604503N Radar Surveillance Equipment Program 4 4,590 7,986 2	138		Advanced Medium Range Air-to-Air Missile (AMRAAM)	-	3,575	2,599	2,875 U
600436N NATO SEA SPARROW 4 5,743 6,194 060436N Standard Missile Improvements 4 48,014 36,540 3 060436N TOMAHAWK - Theater Mission Planning Center 4 12,167 33,128 33,128 060436N S'ROLling Air Frame Mission Planning Center 4 12,468 5,000 5,000 060437N Sin-688 Class Vertical Launch System 4 11,064 9,915 6,000 060437N New Threat Upgrade 4 11,064 9,915 16,200 16,200 0604502N Submarine Communications 4 11,015 13,888 1 0604502N Submarine Sonar Development 4 13,806 6,587 1 0604503N Air Control 4 13,806 6,587 1 0604503N Navy Standard Signal Processors 4 13,806 6,587 1 0604503N Navy Standard Signal Processors 4 4,439 18,786 2 0604503N Submarine Support Equipment <	139		Weapon	4	6,335	9,142	9,013 U
6004366N Standard Missile Improvements 4 48,014 36,540 3 0604367N TOMANAW - Theater Mission Planning Center 4 12,167 33,128 0604367N S'N-688 Class Vertical Launch System 4 12,468 5,000 0604372N New Threat Upgrade 4 11,064 9,915 0604372N Non-Acoustic Mine Detection 4 11,064 9,915 0604502N Submarine Communications 4 11,215 13,888 1 0604503N Submarine Sonar Development 4 13,806 6,587 1 0604503N Air Control 4 13,806 6,587 1 0604503N Navy Standard Signal Processors 4 13,806 6,587 1 0604503N Navy Standard Signal Processors 4 4,590 7,986 20,134 20,321 1 0604508N Submarine Support Equipment Program 4 4,439 18,785 2 0604515N Ship Survivability 4 5,472 5,020 </td <td>140</td> <td></td> <td></td> <td>4</td> <td>5,743</td> <td>6,194</td> <td>6,299 U</td>	140			4	5,743	6,194	6,299 U
0604367N TOMAMAWR - Theater Mission Planning Center 4 12,167 33,128 0604369N 5'Rolling Air Frame Missile 4 3,030 5,000 0604370N S'N-688 Class Vertical Launch System 4 12,468 5,000 0604372N Niva Threat Upgrade 4 11,064 9,915 0604373N Niva Threat Upgrade 4 11,064 9,915 0604373N Submarine Communications 4 11,215 13,888 1 0604502N Submarine Sonar Development 4 38,199 38,964 3 0604504N Air Control 4 13,806 6,587 1 0604506N Air Control 4 13,806 6,587 1 0604506N Navy Standard Signal Processors 4 20,134 20,321 1 0604508N Radar Surveillance Equipment 4 4,439 18,785 2 0604515N Ship Survivability 4 5,472 5,020 2	141			4	48,014	36,540	34,940 U
0604369N S'Nolling Air Frame Missile 4 3,030 5,000 0604370N S'An-688 Class Vertical Launch System 4 12,468 0604372N New Threat Upgrade 4 11,064 9,915 0604372N Non-Acoustic Mine Detection 4 11,064 9,915 0604502N Submarine Communications 4 11,215 13,868 1 0604503N Submarine Sonar Development 4 13,806 6,587 1 0604506N Air Control 4 13,806 6,587 1 0604506N Chemical Warfare Countermeasures 4 13,806 6,587 1 0604506N Navy Standard Signal Processors 4 4,590 7,986 7,986 0604506N Submarine Support Equipment Program 4 4,439 18,785 2 0604516N Ship Survivability 4 5,472 5,020 2	142			4	12,167	33,128	3,712 U
0604370N S:N-688 Class Vertical Launch System 4 12,468 0604372N New Threat Upgrade 4 11,064 9,915 0604373N Non-Acoustic Mine Detection 4 11,215 13,888 1 0604502N Submarine Communications 4 11,215 13,888 1 0604503N Submarine Sonar Development 4 38,199 38,964 3 0604504N Air Control 4 13,806 6,587 1 0604507N Navy Standard Signal Processors 4 20,134 20,321 1 0604507N Submarine Support Equipment 4 4,590 7,986 2 0604515N Submarine Support Equipment Program 4 4,439 18,785 2 0604515N Ship Survivability 5,5020 5,020	143		5'Rolling Air Frame Missile	4	3,030	5,000	ຄ
0604372N New Threat Upgrade 4 11,064 9,915 0604373N Non-Acoustic Mine Detection 4 3,949 16,200 0604502N Submarine Communications 4 11,215 13,888 1 0604503N Submarine Sonar Development 4 38,199 38,964 3 0604504N Air Control 4 13,806 6,587 1 0604506N Chemical Warfare Countermeasures 4 8,497 5,556 0604507N Navy Standard Signal Processors 4 4,590 7,986 0604508N Radar Surveillance Equipment Program 4 4,439 18,785 2 0604515N Ship Survivability 4 5,472 5,020 3	144			4	12,468		Þ
0604373N Non-Acoustic Mine Detection 4 3,949 16,200 0604502N Submarine Communications 4 11,215 13,888 1 0604503N Submarine Sonar Development 4 13,806 6,587 1 0604504N Air Control 4 13,806 6,587 1 0604506N Chemical Warfare Countermeasures 4 8,497 5,556 0604507N Navy Standard Signal Processors 4 20,134 20,321 1 0604508N Radar Surveillance Equipment Program 4 4,590 7,986 0604515N Submarine Support Equipment Program 4 5,472 5,020	145		New Threat Upgrade	4	11,064	9,915	6,166 U
0604502N Submarine Communications 4 11,215 13,888 1 0604503N Submarine Sonar Development 4 38,199 38,964 3 0604503N Air Control 4 13,806 6,587 1 0604506N Chemical Warfare Countermeasures 4 8,497 5,556 0604507N Navy Standard Signal Processors 4 20,134 20,321 1 0604508N Radar Surveillance Equipment Program 4 4,590 7,986 2 0604515N Submarine Support Equipment Program 4 4,439 18,785 2 0604516N Ship Survivability 4 5,472 5,020	146		Non-Acoustic Mine Detection	4	3,949	16,200	n
0604503N Submarine Sonar Development 4 38,199 38,964 3 0604504N Air Control 4 13,806 6,587 1 0604506N Chemical Warfare Countermeasures 4 8,497 5,556 0604506N Navy Standard Signal Processors 4 20,134 20,321 1 0604508N Radar Surveillance Equipment 4 4,590 7,986 7,986 0604515N Submarine Support Equipment Program 4 4,439 18,785 2 0604516N Ship Survivability 4 5,472 5,020	147		Submarine Communications	4	11,215	13,888	15,950 U
0604504N Air Control 4 13,806 6,587 1 0604506N Chemical Warfare Countermeasures 4 8,497 5,556 0604507N Navy Standard Signal Processors 4 20,134 20,321 1 0604508N Radar Surveillance Equipment 4 4,590 7,986 0604515N Submarine Support Equipment Program 4 4,439 18,785 2 0604516N Ship Survivability 4 5,472 5,020	148		Submarine Sonar Development	4	38,199	38,964	37,312 U
0604506N Chemical Warfare Countermeasures 4 8,497 5,556 0604507N Navy Standard Signal Processors 4 20,134 20,321 1 0604507N Radar Surveillance Equipment 4 4,590 7,986 0604515N Submarine Support Equipment Program 4 4,439 18,785 2 0604516N Ship Survivability 4 5,472 5,020	149		Air Control	4	13,806	6,587	14,499 U
0604507N Navy Standard Signal Processors 4 20,134 20,321 1 0604508N Radar Surveillance Equipment 4 4,590 7,986 0604515N Submarine Support Equipment Program 4 4,439 18,785 2 0604516N Ship Survivability 4 5,472 5,020	150		Chemical Warfare Countermeasures	4	8,497	5,556	5,944 U
0604508N Radar Surveillance Equipment 4 4,590 7,986 0604515N Submarine Support Equipment Program 4 4,439 18,785 2 0604516N Ship Survivability 4 5,472 5,020	151		Navy Standard Signal Processors	4	20,134	20,321	15,300 U
0604515NSubmarine Support Equipment Program44,43918,78520604516NShip Survivability5,020	152		Radar Surveillance Equipment	4	4,590	7,986	U 861,8
0604516N Ship Survivability 5,020	153		Submarine Support Equipment Program	4	4,439	18,785	22,951 U
	154		Ship Survivability	4	5,472	5,020	5,494 U

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Department of the Navy FY 1993 R D T & E Program

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Appr	copriation:	Appropriation: 1319 N Research Development Test & Eval Navy			Date:	29 Jan 1992
! ! !		:		 	Thousands	of Dollars
Line		·	!			S &
o z	Number	ltem	Act	FY 1991	FY 1992	FY 1993 C
155	0604518N	Combat Information Center Conversion	4	23,276	8,930	18,719 U
156	0604524N	Submarine Combat System	4	334,051	264,270	ח
157	0604559N	Deep Submergence Technology	4		23,244	21,085 U
158	0604561N	SSN-21 Developments	4	187,420	155,690	n
159	0604562N	Submarine Tactical Warfare System	4	73,933	78,283	65,382 U
160	0604567N	Ship Subsystem Development/Land Based Test Site	4,	28,828	21,915	34,224 U
191	0604574N	Navy Tactical Computer Resources	4	29,251	36,250	36,518 U
162	0604601N	Mine Development	4	12,173	8,703	N 668'8
163	0604602N	Naval Gunnery Improvements	4	6,631	4,453	5,281 U
164	1 0604603N	Unguided Conventional Air-Launched Weapons	4	5,492	10,678	10,291 U
165	0604608N	Surface Electro-Optic System	4	10,437		ם
991	0604609N	Bomb Fuze Improvement	4	15,197	15,401	n
167	0604610N	MK 50 Torpedo	4	41,518	5,989	D
168	0604612M	Marine Corps Mine Countermeasures Systems - Eng	4	16,071	1,174	2,971 U
169	0604618N	Joint Direct Attack Munition	4			26,541 U
170	0604654N	Joint Service Explosive Ordnance Development	4	5,979	5,665	5,986 U
171	. 0604656М	Marine Corps Assault Vehicles - Eng Dev	4	18,329		n
172	0604657M	Marine Corps Ground Combat/Supporting Arms System - Eng Dev	4	202		Ð
173	0604704N	Anti-Submarine Warfare Oceanographic Equipment	4	096	1,245	1,209 U
174	0604707N	Theater Mission Planning Center	4	4,093		2,874 U

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Department of the Navy FY 1993 R D T & E Program

Exhibit R-1

4,026 U 2,119 U 3,100 U 249 U N 908 12,147 U D 016'99 1,965 U 995 U 154,486 U 3,715 U 14,032 U 7,901 U 1,133,589 U FY 1993 Date: 29 Jan 1992 Thousands of Dollars 56,943 4,139 6,375 3,361 827 107 367 52,846 2,014 783 3,634 FY 1992 10,646 16,967 237,596 13,911 416,947 3,415 14,127 2,872 14,860 5,523 3,944 1,005 3,594 9,595 21,352 84,337 FY 1991 119,730 1,071 16,351 202,617 Act Marine Corps Intelligence/Electronics Warfare System Marine Corps Command/Control/Communications Appropriation: 1319 N Research Development Test & Eval Navy Electromagnetic Effects & Spectrum Control C2 Surveillance/Reconnaissance Support Marine Corps Combat Services Support Surface Warfare Training Devices Fixed Distributed System - Eng Surface ASW System Improvement Systems Joint Standoff Weapon Systems Air Warfare Training Devices JINTACCS Marine Corps Medical Developments Navy Energy Program F/A-18 Squadrons A-6 Squadrons Intelligence 0604710N 0604727N 0604761N 0604771N 0604784N 0605803N 0605867N 0204134N 0204136N 0604713N 0604714N 0604715N 0604717M 0604718M 0604780M 0604719M Program Element Number Line 176 177 179 180 183 184 185 188 189 190 181 182 186 187

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23,984 U 25,450 U

18,195

33,298

6,656 U

6,268

35,668 1,623 10,257

Sea-Based Electronic Warfare Squadrons

E-2 Squadrons

0204152N

191

0204154N 0204163N 0204229N

192

Surface Combatant Ordnance - Tomahawk

194

Fleet Telecommunications (Tactical)

Exhibit R-1 Department of the Navy FY 1993 R D T & E Program

Appr	Appropriation:	1319 N Research Development Test & Eval Navy			Date:	29 Jan 1992
}					Thousands	of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
195	0204311N	Undersea Surveillance Systems	₫*	50,439	73,638	71,269 U
196	0204313N	Ship-Towed Array Surveillance Systems	4	5,774	23,868	U 188, 12
197	0204413N	Amphibious Tactical Support Units	4	4,078	3,344	3,551 U
198	0204571N	Special Projects	4	5,571	14,178	21,059 U
199	0205604N	Tactical Information System	4	77,896	72,870	58,230 U
200	0205620N	ASW Combat Systems Integration	4	17,521	19,021	19,555 U
201	0205633N	Aircraft Equipment Reliability/Maintainability	4	419	2,000	1,918 U
202	0205667N	Flogram F-14 Upgrade	4	119,750	115,268	101,228 U
203	0205670N	Tactical Intelligence Processing	4	4,875	2,096	2,506 U
204	0205675N	Operational Reactor Development	4	56,618	58,236	57,834 U
205	0206313M	Marine Corps Telecommunications	4	5,317	3,810	4,189 U
206	0206623M	Marine Corps Ground Combat/Supporting Arms System	4	52,144	39,660	20,445 U
207	0206624M	Marine Corps Combat Services Support	4	1,903	205	554 U
208	0206625M	Marine Corps Intelligence/Electronics Warfare	4	33,237	28,129	22,838 U
209	0206626M	Systems Marine Corps Command/Control/Communications	4	22,621	18,721	13,435 U
210	0207316N	DYSCENS TACIT RAINBOW	4	8,155		b
211	0208010M	Joint Tactical Communications Program (TRI-TAC)	4	2,080	699	849 U
	Tactical Programs	Programs		4,961,102	5,620,502	5,103,757
212	0604230N	Warfare Support System	ß	11,722	2,461	2,344 U

UNCLASSIFIED

Department of the Navy FY 1993 R D T & E Program

Properties 1319 No Research Development Test 6 Eval Navy Properties Prope			FY 1993 R D T	e E	Program		Exhibit R-1
Program Prog	Appr	opriation:	Research Development Test & Eval			Date:	
1.000 1.00	 - -			ļ		Thousands	of Dollar
Mavigation Systems 5 5,260 4,105 2,4,943 2,60451M Mavigation Systems 5 5,260 4,105 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,897 2,997	Line No		Item	Act	FY 1991	FY 1992	m i
060451AN Mavigation Systems 5,260 4,106 7,895 060457N EHE SATCOM 17,304 33,812 27,369 060472LN Battle Group Passive Horizon Extension System 5 49,460 49,923 27,369 060437N NAVSTAR GPS 3,001 5 49,460 49,923 52,379 0605866N NAVSCAMMAND GRAND GONT COL Planning and Development 5 3,205 2,994 3,033 0303103N Astallite Communications 5 15,989 30,730 29,186 0303041N Communications Security (COMSEC) 5 15,989 30,730 29,186 0303011N Special Activities 5 15,989 30,730 29,186 060425N Milstar Satellite Communications System 5 12,144 26,021 29,118 060425N Milstar Satellite Communications 4 26,021 29,212 20,212 060425N Milstar Satellite Communications 5 12,144 26,021 20,714 060425N Electronic Warfare	213		Tactical Command System	ĸ	46,615	35,569	24,943 U
000437NA EHE SANCOM 5 17,304 33,812 27,369 000471NA Battle Group Passive Horizon Extension System 5 49,460 49,923 7,200 060477NA NAVSTAR GPS 1 3,205 2,994 3,033 060437NA Navy Command and Control Planning and Development 5 49,460 49,923 52,379 060430A Navy Command and Control Planning and Burveillance 5 15,989 30,736 52,378 0303103NA Tacchnical Reconnaizations Security (COMSEC) 5 15,989 30,736 29,18 0303401N Communications Security (COMSEC) 5 15,989 30,736 29,18 030411IN Special Activities Alian Security (COMSEC) 5 3,424 2,31 0604325N Environmental Protection 6 12,144 26,021 29,12 060425N Enctronic Warfare Simulation Systems Development (RISD) 6 29,119 30,608 060425N Target Systems Development - Mc 6 29,119 30,736 060	214		Navigation Systems	S	5,260	4,106	2,897 U
0004721M Battle Group Passive Horizon Extension System 5 49,460 49,923 7,200 0605866M Navy Command and Control Planning and Development Bookselos 3,025 3,025 2,994 3,033 0301327M Tacchnical Reconnaissance and Surveillance Bookselos 5 15,989 30,730 29,18 0303105M Satellite Communications System 5 15,989 30,730 29,18 0303105M Milstar Satellite Communications System 5 15,989 30,730 29,18 0303401M Special Activities 6 12,144 26,021 29,118 0603721M Environmental Protection 6 9,584 9,567 9,190 0604258M Range Instrumentation Systems Development (RISD) 6 9,584 9,567 9,190 0604258M Target Systems Development 6 29,119 9,567 9,130 0604258M Target Systems Development MCCONTROLITY 6 9,584 9,567 9,130 0604258M Studies and Analysis Support - MC 6 2,1	215		EHF SATCOM	S	17,304	33,812	27,369 U
0601327N NAVSTAR GPS 5 49,460 49,923 52,379 0605866N Navy Command and Control Planning and Development 5 3,205 2,994 5,033 0301327N Technical Reconnaissance and Surveillance 5 15,989 30,730 29,18 0303109N Satellite Communications Sustem 5 15,989 30,730 29,18 0303401N Communications Security (COMSEC) 5 15,989 30,730 29,18 0303411N Special Activities All Star Satellite Communications 5 12,424 2,371 1114c11 quantial Protection Special Activities 1000 12,144 26,021 29,130 0604208N Range Instrumentation Systems Development 6 12,144 26,021 9,190 0604258N Target Systems Development 6 9,584 9,567 9,190 0604103N Personnel, Training, Simulation, and Human Factor 6 20,114 1,790 1,137 060515LM Studies and Analysis Support - MC 6 2,044 1,890	216			ĸ			7,200 U
0503666N Navy Command and Control Planning and Development 5 3,205 2,994 3,033 0301327N Technical Reconnaissance and Surveillance 0303109N Satellite Communications Surveillance 0303401N 5 15,989 30,730 29,118 0303401N Communications Security (COMSEC) 5 3,424 2,371 0303401N Milstar Satellite Communications System 5 12,144 3,424 2,31 0303401N Special Activities 5 12,144 26,021 29,12 040371N Environmental Protection 6 12,144 26,021 30,608 0604208N Range Instrumentation Systems Development (RISD) 6 29,119 20,714 30,608 060425SN Target Systems Development 6 49,478 27,148 40,036 0604103N Personnel, Training, Simulation, and Human Factor 6 2,044 1,890 1,137 060515LM Studies and Analysis Support - May 6 2,044 1,890 1,958 060515LM Studies and Analysis Support - May 6 2,793	217		_	ĸ	49,460	49,923	52,379 U
0303401N Tachnical Reconnaissance and Surveillance 5 15,989 30,730 29,18 0303401N Communications Security (COMSEC) 5 15,989 30,730 29,18 0303401N Communications Security (COMSEC) 5 3,424 2,37 0303411N Special Activities 3,424 2,37 Intelligence and Communications 5	218		Navy Command and Control Planning and Development		3,205	2,994	3,033 U
0303401N Satellite Communications 5 15,989 30,730 29,18 0303401N Communications Security (COMSEC) 5 15,989 30,730 29,18 0303603N Milstar Satellite Communications System 5 12,144 2,37 Thtell: Intell: Totallite Communications 1030411N Special Activities Intell: Totallite Communications 1030411N Intell: Totallite Communications 103041N Totallite Communications 103041N 103041N 103041N 10304 10304 10304 10304 10304 10304 10304 10304 10304 10304 10304	219		al Reconnaissance and	ĸ			<u>-</u>
0303401N Communications Security (COMSEC) 5 3,424 2,37 0303603N Milstar Satellite Communications System 5 ————————————————————————————————————	220		Satellite Communications	S	15,989	30,730	29,18
0303603N Milstar Satellite Communications System 5 3,424 2,37 030411N Special Activities 5 ————————————————————————————————————	221		Communications Security (COMSEC)	ß			Π
Special Activities Special	222			'n		3,424	2,37 U
Intelligence and Communications Intelligence and Communications 0603721N Environmental Protection 6 12,144 26,021 29,212 0604208N Range Instrumentation Systems Development (RISD) 6 9,584 9,567 9,190 0604255N Electronic Warfare Simulator Development 6 29,119 20,741 30,608 0604258N Target Systems Development 6 49,478 27,148 40,036 0604258N Target Systems Development 6 49,478 27,148 40,036 0604703N Personnel, Training, Simulation, and Human Factor 6 2,044 1,890 1,137 0605151M Studies and Analysis Support - Navy 6 5,793 5,385 5,680	223			S			Ð
0603721N Environmental Protection 6 12,144 26,021 29,212 0604208N Range Instrumentation Systems Development (RISD) 6 9,584 9,567 9,190 0604258N Electronic Warfare Simulator Development 6 29,119 20,741 30,608 0604258N Target Systems Development 6 49,478 27,148 40,036 0604703N Personnel, Training, Simulation, and Human Factor 6 1,060 1,790 1,137 0605151M Studies and Analysis Support - MC 6 2,044 1,890 1,958 0605152N Studies and Analysis Support - Navy 6 5,793 5,880 5,680		Intellig	ance and Communications		859,009	858,567	801,618
0604258N Range Instrumentation Systems Development (RISD) 6 9,584 9,567 9,190 0604258N Electronic Warfare Simulator Development 6 29,119 20,741 30,608 0604258N Target Systems Development 6 49,478 27,148 40,036 0604703N Personnel, Training, Simulation, and Human Factor 6 1,060 1,790 1,137 0605151M Studies and Analysis Support - MC 6 2,044 1,890 1,958 0605152N Studies and Analysis Support - Navy 6 5,793 5,385 5,680	224		Environmental Protection	9	12,144	26,021	29,212 U
0604255N Electronic Warfare Simulator Development 6 29,119 20,741 30,608 0604258N Target Systems Development 6 49,478 27,148 40,036 0604703N Personnel, Training, Simulation, and Human Factor 6 1,060 1,790 1,137 0605151M Studies and Analysis Support - May 6 2,044 1,890 1,958 0605152N Studies and Analysis Support - Navy 6 5,793 5,880	225		_	9	9,584	6,567	0,190 U
0604258N Target Systems Development 6 49,478 27,148 40,036 0604703N Personnel, Training, Simulation, and Human Factor 6 1,060 1,790 1,137 0605151M Studies and Analysis Support - MC 6 2,044 1,890 1,958 0605152N Studies and Analysis Support - Navy 6 5,793 5,385 5,680	226		Electronic Warfare Simulator Development	9	29,119	20,741	30,608 U
0604703N Personnel, Training, Simulation, and Human Factor 6 1,060 1,790 1,137 0605151M Studies and Analysis Support - MC 6 2,044 1,890 1,958 0605152N Studies and Analysis Support - Navy 6 5,793 5,385 5,680	227			9	49,478	27,148	40,036 U
0605151M Studies and Analysis Support - MC 6 2,044 1,890 1,958 0605152N Studies and Analysis Support - Navy 6 5,793 5,385 5,680	228				1,060	1,790	1,137 U
0605152N Studies and Analysis Support - Navy 6 5,793 5,385 5,680	229		and Analysis Support -	9	2,044	1,890	1,958 U
	230		and Analysis Support -	9	5,793	5,385	5,680 U

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Department of the Navy FY 1993 R D T & E Program

		Pepartment of Partment of Part	T & E	navy Program		Exhibit R-1
Appr	Appropriation: 1	1319 N Research Development Test & Eval Navy			Date:	29 Jan 1992
!			1	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Thousands	s of Dollars
Line No	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
231	0605154N	Center for Naval Analyses	9	43,900	42,000	43,178 U
232	0605155N	Pleet Tactical Development and Evaluation	9	7,518	3,982	U 767,7
233	0605156M	Marine Corps Operational Test and Evaluation	9	1,099	2,898	1,803 U
234	0605502N	Small Business Innovative Research	9	42,793		ם
235	0605804N	Technical Information Services	9	3,124	11,483	14,619 U
236	0605853N	Management and Technical Support	9	8,561	11,583	12,747 U
237	0605857N	International RDT&E	9	2,876	1,261	1,427 U
238	0605861N	RDT&E Science and Technology Management	9	54,569	57,407	54,357 U
239	0605862N	RDT&E Instrumentation Modernization	9	19,037	14,938	15,500 U
240	0605863N	RDT&E Ship and Aircraft Support	9	71,961	95,543	108,555 U
241	0605864N	Test and Evaluation Support	9	317,047	323,753	353,226 U
242	0605865N	Operational Test and Evaluation Capability	9	7,220	7,601	9,159 U
243	0605871M	Marine Corps Tactical Exploitation of National	9	1,958	1,149	1,254 U
244	0605872N	Capadilities Productivity Investments	9	650	532	416 U
245	0205658N	Laboratory Fleet Support	9	7,316	4,973	7,821 U
246	0305111N	Weather Service	9	1,015	1,118	U 777
247	0305160N	Defense Meteorological Satellite Program (DMSP)	9	4,157	13,048	17,598 U
248	N1108010	Industrial Preparedness	9	110,069	20,356	45,384 U
	Defensewide Missi	de Mission Support		814,092	790,167	813,439
Total		Research Development Test & Eval Navy		7,989,353	8,549,850	8,517,778
		GETETPACTURE	CETET			Page N-13

	FY 1991	FY 1992	FY 1993
Summary Recap of Research Categories			
Research	204,602	214,371	247.220
Exploratory Development	578,458	604,441	771,208
Advanced Development Engineering Development	1,931,083	1,247,815	1,246,218
Management and Support	4,238,183 641,472	4,814,807 675,135	5,050,260 720,805
Research and Development (FYDP Program 6)	7,593,798	7,556,569	8,035,711
Operational Systems Development	4,381,371	6,034,375	6,496,664
Total Research Development Test & Eval AF	11,975,169	13,590,944	14,532,375
Summary Recap of Budget Activities			
Technology Base			
Advanced Technology Development	090'88/	818,812	1,018,428
Strategic Programs	873, 199	121,147	818,128
Tactical Programs	3,535,796	4,626,830	780,037 4 788 A06
Intelligence and Communications	1,993,006	2,434,413	2,518,558
Defensewide Mission Support	1,473,902	1,393,972	1,590,218
Total Research Development Test & Eval AF	11,975,169	13,590,944	14,532,375
Summary Recap of FYDP Programs			
Strategic Forces	639,694	362.084	000
General Purpose Forces	908,281	1.349.393	1 074 600
Intelligence and Communications	2,674,490	4,243,804	5.087.307
Airlitt/Sealift	12,797	10,955	20,200
Research and Development (FYDP Program 6)	7,593,798	7,556,569	8,035,711
Contrat Supply and Maintenance	138,343	60,019	107,330
Support of Other Netions	4,478	5,174	5,300
diport of collet Nations	3,288	2,946	3,727
Total Research Development Test & Eval AF	11 075 160	220 002 01	
	6011616117	73,080,844	14,532,375

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Department of the Air Force FY 1993 R D T & E Program

		Department of the Alr Force FY 1993 R D T & E Program	t the Alr DT & EP	Force rogram		Exhibit R-1
Appr	opriation: 3	Appropriation: 3600 F Research Development Test & Eval AF			Date:	29 Jan 1992
; ; ;		\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \	i i 1 i 1 i 1 i 1 i 1 i		Thousands	of Dollars
Line	Fine Element No Number	Item	Act	FY 1991	FY 1992	FY 1993 C
7	. 0601101F	In-House Laboratory Independent Research	1	7,180	7,946	п 908'6
7	0601102F	Defense Research Sciences	1	197,422	206,425	237,414 U
m	0602101F	Geophysics	м	35,330	36,919	42,456 U
4	1 0602102F	Materials	н	61,857	68,235	84,779 U
S	6 0602201F	Aerospace Flight Dynamics	7	61,174	950'59	73,928 U
9	0602202F	Human Systems Technology	1	54,450	52,999	N 661,39
7	0602203F	Aerospace Propulsion	1	64,458	70,163	85,420 U
&	0602204F	Aerospace Avionics	1	67,747	80,257	105,497 U
6	0602205F	Personnel, Training and Simulation	7	29,720	29,716	32,777 U
10	0602206F	Civil Engineering and Environmental Quality	1	006'9	6,633	11,773 U
11	. 0602302F	Rocket Propulsion and Astronautics Technology	ત	37,206	32,900	42,160 U
12	. 0602601F	Advanced Weapons	1	35,675	37,468	43,493 U
13	0602602F	Conventional Munitions	7	45,259	42,414	67,407 U
14	0602702F	Command Control and Communications	1	78,682	81,681	115,319 U
	Technology Base	Вазе		783,060	818,812	1,018,428
15	0603106F	Logistics Systems Technology	~	11,004	6,149	14,985 U
16	0603109F	INEWS/ICNIA	~	29,302		Þ
17	0603112F	Advanced Materials for Weapon Systems	81	14,705	15,887	17,835 U
18	0603202F	Aerospace Propulsion Subsystems Integration	7	20,340	28,695	29,169 U

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Department of the Air Force FY 1993 R D T & E Program

Exhibit R-1

Appr	Appropriation:	3600 F Research Development Test & Eval AF			Date:	29 Jan 1992
					Thousands	of Dollars
Line	Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
19	0603203F	Advanced Avionics for Aerospace Vehicles	7	31,913	34,001	51,617 U
20) 0603205F	Aerospace Vehicle Technology	7	20,464	12,058	16,329 U
21	1 0603211F	Aerospace Structures	7	18,150	19,913	19,147 U
22	2 0603216F	Aerospace Propulsion and Power Technology	7	34,582	42,057	40,790 U
23	3 0603227F	Personnel, Training and Simulation Technology	7	7,896	9,401	N 685'6
24	1 0603231F	Crew Systems and Personnel Protection Technology	7	18,194	18,342	18,049 U
25	5 0603238F	Global Surveillance/Air Defense/Precision Strike	7			25,000 U
26	5 0603245F	Technology Demonstratio Advanced Fighter Technology Integration	7	22,858	10,173	18,735 U
27	7 0603250F	Lincoln Laboratory	7	25,846	26,719	26,686 U
28	3 0603253F	Advanced Avionics Integration	7	15,342	16,530	24,676 U
29	9 0603269F	National Aero Space Plane Technology Program	7	161,520	200,033	175,489 U
30	D 0603270F	EW Technology	7	33,648	32,645	32,781 U
31	L 0603302F	Space and Missile Rocket Propulsion	8	11,222	13,491	15,516 U
32	2 0603311F	Advanced Strategic Missile Systems	8		63,045	n 809'99
33	3 0603363F	Armament Technology Integration	7	996	2,131	D
34	4 0603401F	Advanced Spacecraft Technology	۲	14,125	27,914	36,205 U
35	5 0603410F	Space Systems Environmental Interactions	7	5,282	4,871	4,182 U
36	5 0603428F	Space Surveillance Technology	7		4,575	24,801 U
37	7 0603601F	Conventional Weapons	7	28,431	30,421	39,330 U
38	3 0603605F	Advanced Weapons Technology	7	53,740	60,552	54,837 U

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Department of the Air Force

PY 1993 R D T & E Program Exhibit R-1	ion: 3600 F Research Development Test & Eval AF
	Appropriation: 3600 F

Program	İ						
Trem		Program		1		Thousand	of Dollars
0603726F Civil and Environmental Engineering Technology 2 5,571 5,533 0603726F Civil and Environmental Engineering Technology 2 11,071 13,036 9,483 0603726F C3I Subsystem Integration 2 9,060 9,685 1 0603726F Advanced Computer Technology 2 9,612 9,635 9,685 0603726F C3A Advanced Development 2 9,812 9,635 9,635 0603106F Base Operations - RDTeE 3 727,147 88 88 0603107F Olympic 3 64,514 727,147 88 0603111F Meridian 3 64,514 79,580 0603111F Meridian 3 1,000 1,546,019 1,26 0603111F Meridian 3 64,514 75,580 1,256,019 1,256 0603126F Bayanced Strategic Missile System 3 1,715,690 1,546,019 1,26 0604246F Short Range Attack Missile II (SRAM II) - Eng Dev 3 581,8	NO NO	Element Number	Item	Act	FY 1991	FY 1992	1
0603726F Civil and Environmental Engineering Technology 2 11,071 13,036 11 0603726F Cist Subsystem Integration 2 8,755 9,483 11 0603726F Cist Subsystem Integration 2 8,755 9,483 11 0603726F Cist Subsystem Integration 2 2 9,682 9,887 11 0603726F Cist Advanced Development 2 2 9,882 2 9,685 11 0603726F Cist Advanced Development 3 727,147 8 060310F Special Evaluation Program 3 1,000 1,735 19 060311E Meridian 3 1,000 1,735 19 060331E Advanced Warning System 3 1,000 1,735,690 1,736,019 1,736 19 0603426F Space Surveillance Technology Bomber 3 1,715,690 1,546,019 1,26 0604240F Short Range Attack Missile II (SRAM II) - Eng Dev 3 144,150 182,461 5 0604312F CISM Modernization 3 581,870 182,461 5 0604311B Systems Survivability (Nuclear Effects) 3 4,837 6,608 11	39		Weather	7	5,571	5,533	5,282 U
0603726F C31 Subsystem Integration 2 9,755 9,483 1 0603728F Advanced Computer Technology 2 9,060 9,857 1 060378F C3 Advanced Development 2 9,012 9,635 1 060386F Base Operations - RDree 1	40			8	11,071	13,036	11,284 U
0603728F Advanced Computer Technology 2 9,060 9,857 1 060389F C3 Advanced Development 2 9,812 9,635	41			7	8,755	9,483	
0603789F C3 Advanced Development 2 9,812 9,635 0605896F Base Operations - RDTeE 2	42		Advanced	7	090'6	9,857	
Advanced Technology Development 2 Advanced Technology Development 3 060310F Olympic 060310F Special Evaluation Program 3 060311F Meridian 0603311F Advanced Strategic Missile Systems 3 0603321F Advanced Warning System 3 0603426F Space Surveillance Technology 3 0604240F B-1B 1,715,690 0604240F Short Range Attack Missile II (SRAM II) - Eng Dev 3 0604240F Short Range Attack Missile II (SRAM II) - Eng Dev 3 0604212F ICBM Modernization 3 0604211F Systems Survivability (Nuclear Effects) 3 0604711F Systems Survivability (Nuclear Effects) 3 0604711F B-52 Squadrons 3	43			7	9,812	9,635	D 808'6
Advanced Technology Development 3 727,147 818,128 0603105F 01ympic 3 44,514 818,128 0603110F Special Evaluation Program 3 4,514 79,580 0603311F Meridian 3 64,514 79,580 79,580 0603311F Advanced Warning System 3 1,000 1,357 90,691 0603428F Space Surveillance Technology 3 1,715,690 1,546,019 1,261,384 0604240F B-1B 3 1,715,690 1,546,019 1,261,384 0604240F Short Range Attack Missile II (SRAM II) - Eng Dev 3 144,150 1,546,019 1,561,384 0604312F ICBM Modernization 3 4,837 6,608 6,491 0604711F Systems Survivability (Nuclear Effects) 3 4,837 6,608 6,491 1010113F B-5 Squadrons 3 3,942 13,390 13,390	44			~			4,810 U
0603110F Special Evaluation Program 3 0603111F Meridian 3 64,514 0603131F Advanced Strategic Missile Systems 3 64,514 79,580 0603311F Advanced Warning System 3 1,000 1,357 90,691 0603426F Space Surveillance Technology 3 1,715,690 1,546,019 1,261,384 0604240F B-1B 3 1,715,690 1,546,019 1,261,384 0604240F B-2 Advanced Technology Bomber 3 144,150 1,546,019 1,261,384 0604312F Short Range Attack Missile II (SRAM II) - Eng Dev 3 144,150 182,461 54,913 0604312F Systems Survivability (Nuclear Effects) 3 4,837 6,608 6,400 0101113F B-52 Squadrons 3 3,942 13,300		Advanced			623,799	727,147	818,128
060311.0F Special Evaluation Program 3 060311.1F Meridian 3 64,514 060331.1F Advanced Strategic Missile System 3 1,000 060342.5F Advanced Warning System 3 1,000 060342.6F B-1B 1,357 90,691 06042.4F B-2 Advanced Technology Bomber 3 1,715,690 1,546,019 1,261,384 06042.4F Short Range Attack Missile II (SRAM II) - Eng Dev 3 1,715,690 1,546,019 1,261,384 060431.2F Short Range Attack Missile II (SRAM II) - Eng Dev 3 4,837 6,608 6,400 060431.2F Systems Survivability (Nuclear Effects) 3 4,837 6,608 6,400 01011.13F B-52 Squadrons 3 3,942 13,390	45			m			ם
060311IF Advanced Strategic Missile Systems 3 64,514 79,580 0603425F Advanced Warning System 3 1,000 79,580 0603428F Space Surveillance Technology 3 1,000 1,357 90,691 0604240F B-1B 1,715,690 1,546,019 1,261,384 0604244F Short Range Attack Missile II (SRAM II) - Eng Dev 3 144,150 1,546,019 1,261,384 0604312F ICBM Modernization 3 581,870 182,461 54,913 0604311F Systems Survivability (Nuclear Effects) 3 4,837 6,608 6,400 0101113F B-52 Squadrons 3 3,942 13,300	46			ю			Ð
060331IF Advanced Strategic Missile System 3 64,514 79,580 0603425F Advanced Warning System 3 1,000 1,357 90,691 0603428F Space Surveillance Technology 3 1,715,690 1,546,019 1,261,384 0604226F B-1B 3 1,715,690 1,546,019 1,261,384 0604240F B-2 Advanced Technology Bomber 3 144,150 1,546,019 1,261,384 0604312F Short Range Attack Missile II (SRAM II) - Eng Dev 3 144,150 182,461 54,913 0604711F Systems Survivability (Nuclear Effects) 3 4,837 6,608 6,400 0101113F B-52 Squadrons 3 3,942 13,300	47		Meridian	ю			n
0603425F Advanced Warning System 3 1,000 0603428F Space Surveillance Technology 3 1,000 0604226F B-1B 1,357 90,691 0604240F B-2 Advanced Technology Bomber 3 1,715,690 1,546,019 1,261,384 0604244F Short Range Attack Missile II (SRAM II) - Eng Dev 3 144,150 182,461 54,913 0604312F ICBM Modernization 3 581,870 182,461 54,913 0604711F Systems Survivability (Nuclear Effects) 3 4,837 6,608 6,400 0101113F B-52 Squadrons 3 3,942 13,390	48			м	64,514		מ
0603428F Space Surveillance Technology 3 1,000 1,357 90,691 0604226F B-IB 1,715,690 1,546,019 1,261,384 0604240F Short Range Attack Missile II (SRAM II) - Eng Dev 3 1,715,690 1,546,019 1,261,384 0604312F Short Range Attack Missile II (SRAM II) - Eng Dev 3 144,150 182,461 54,913 0604312F Systems Survivability (Nuclear Effects) 3 4,837 6,608 6,400 0101113F B-52 Squadrons 3 3,942 13,300	49			е		79,580	D
0604226F B-IB 1,357 90,691 0604240F B-2 Advanced Technology Bomber 3 1,715,690 1,546,019 1,261,384 0604244F Short Range Attack Missile II (SRAM II) - Eng Dev 3 144,150 182,461 54,913 0604312F CBM Modernization 3 581,870 182,461 54,913 0604711F Systems Survivability (Nuclear Effects) 3 4,837 6,608 6,400 0101113F B-52 Squadrons 3 3,942 13,300	20		Space Surveillance Technology	æ	1,000		n
0604240F B-2 Advanced Technology Bomber 3 1,715,690 1,546,019 1,261,384 060424F Short Range Attack Missile II (SRAM II) - Eng Dev 3 144,150 182,461 54,913 0604312F ICBM Modernization 3 4,837 6,608 6,400 0604711F Systems Survivability (Nuclear Effects) 3 4,837 6,608 6,400 0101113F B-52 Squadrons 3 3,942 13,300	21		B-1B	٣		1,357	
0604244F Short Range Attack Missile II (SRAM II) - Eng Dev 3 144,150 0604312F ICBM Modernization 3 581,870 182,461 54,913 0604711F Systems Survivability (Nuclear Effects) 3 4,837 6,608 6,400 0101113F B-52 Squadrons 3,942 13,300	52		B-2 Advanced Technology Bomber	٣	1,715,690	1,546,019	
0604312F ICBM Modernization 3 581,870 182,461 0604711F Systems Survivability (Nuclear Effects) 3 4,837 6,608 0101113F B-52 Squadrons 3 3,942	53		Short Range Attack Missile II (SRAM II) - Eng Dev	-	144,150		ם
0604711F Systems Survivability (Nuclear Effects) 3 4,837 6,608 0101113F B-52 Squadrons 3 3,942 1	54		ICBM Modernization	e	581,870	182,461	54,913 U
0101113F B-52 Squadrons 3,942	22		Systems Survivability (Nuclear Effects)	ю	4,837	809'9	6,400 U
	99		B-52 Squadrons	æ		3,942	13,300 U

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Exhibit R-1

Department of the Air Force FY 1993 R D T & E Program

Appro	Appropriations	3600 F Research Development Test & Eval AF			Date:	29 Jan 1992
•				-	Thousands	of Dollars
Line No	Frogram Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
57	0101120F	Advanced Cruise Missile	e	51,838	28,559	82,300 U
58	0101142F	KC-135 Squadrons	٣	3,541	12,836	16,700 U
69	0101213F	Minuteman Squadrons	m	85,713	53,676	28,700 U
9	0101312F	PACCS and WWABNCP System EC-135 Class V Mods	e	1,267	1,301	2,100 U
19	01013138	War Planning Automated Data Processing (ADP) - SA	۳	3,678	3,785	7, 00 U
62	0101815F	Advanced Strategic Programs	e			ם
63	0102310F	NCMC - TW/AA Systems	m	114,028	126,535	n
64	0102325F	Joint Surveillance System	e	1,940	8,427	4,900 U
9	0102411F	Surveillance Radar Stations/Sites	m	7,517	11,796	8,400 U
99	0102412F	Distant Early Warning (DEW) Radar Stations	m	1,023	2,242	2,600 U
67	0102417F	Over-the-Horizon Backscatter Radar	m	9,402		Þ
68	0102423F	Ballistic Missile Early Warning System (BMEWS)	m	17,801	16,823	Þ
69	0102424F	SPACETRACK	m	24,336	13,465	Þ
70	0102431F	Defense Support Program	m	270,126	51,141	n
7.1	0102432F	Submarine-Launched Ballistic Missile (SLBM) Radar	ო	2,242	850	Þ
72	0102433F	warning System NUDET Detection System	ო	23,061	6,804	Þ
73	0102830F	Classified Program	æ			Đ
74	0102831F	Classified Program	æ			n
75	0303131F	Minimum Essential Emergency Communications	m	9,456	20,106	10,700 U
76	0303152F	World-Wide Military Command and Control Systems, Information System	т	1,504	260	D

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Department of the Air Force FY 1993 R D T & E Program

Exhibit R-1

Date: 29 Jan 1992	\$ { - \
Research Development Test & Eval AF	
Appropriation: 3600 F Research Deve	

 - 					Thousands	Thousands of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
77	0303601F	Milstar Satellite Communications System (AP	ю		155,485	1,261,896 U
78	0303603F	Terminais) Milstar Satellite Communications System	٣		884,131	=
79	0305124F	Special Applications Program	м			n
80	0305145F	Arms Control Implementation	m		14,694	4,512 0
81	. 0305892F	Special Analysis Activities	m			=
82	0305905F	Improved Space Based TW/AA	m			251,222 U
83	390650E0	NCMC - TW/AA Systems	м			160,300 U
8	0305909F	Ballistic Missile Early Warning System	٣			7,100 U
85	0305910F	SPACETRACK	ო			53,100 U
98	0305911F	Space Programs	m			U 617,72
87	0305912F	SLBM Radar Warning Systems	m			1,000 U
88	0305913F	NUDET Detection System	m			5,200 U
8	0401216F	Airlift Mission Activities (Non-IF)	m			n 008'9
	Strategic Programs	Programs		3,565,606	3,589,770	3,798,637
90	0603107F	Technical Evaluation System	4			ħ
91	. 0603230F	Advanced Tactical Fighter	4	747,129		Ð
92	0603260F	Intelligence Advanced Development	4	4,195	5,446	7,600 U
93	0603307F	Air Base Operability Advanced Development	4	3,369	3,343	3,700 U
94	1 0603617F	Command, Control, and Communication Applications	4	7,813	3,180	4,100 U

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Department of the Air Force FY 1993 R D T & E Program

		Department of the Air Force FY 1993 R D T & E Program	the Air T & E P	Force rogram		Exhibit R-1
Appr	Appropriation: 3600	3600 F Research Development Test & Eval AF			Date:	29 Jan 1992
!					Thousands	of Dollars
Line		Item	Act	FY 1991	FY 1992	FY 1993 C
95	0603714F	DoD Physical Security Equipment - Exterior	4		737	n 009
96	0603742F	Combat Identification Technology	4	166'1	23,729	19,160 U
97	0603801F	Special Programs	4			n
86	0604201F	Aircraft Avionics Equipment Development	4	10,494	14,765	16,000 u
66	0604212F	Aircraft Equipment Development	4	2,890	4,054	4,000 U
100	0604218F	Engine Model Derivative Program (EMDP)	4	210	3,984	1,000 U
101	0604222F	Nuclear Weapons Support	4	2,359	5,784	5,626 U
102	0604223F	Alternate Fighter Engine	4	5,013		ם
103	0604231F	C-17 Program	4	732,226	372,527	210,000 U
104	0604233F	Specialized Undergraduate Pilot Training (SUPT)	4	2,358	4,233	4,700 U
105	0604237F	Variable Stability In-Flight Simulator Test	₫	11,184	2,080	2,200 U
106	0604239F	Aliciar Advanced Tactical Fighter FSD	4	196,389	1,621,046	2,224,268 U
107	, 0604242F	Advanced Tactical Aircraft	4	1,742		2,000 U
108	0604245F	Short Range Attack Missile - Tactical (SRAM-T)	4	26,684		ם
109	0604247F	Modular Automatic Test Equipment	4	12,812		n
110	0604249F	Night/Precision Attack	4	6,804	26,381	26,900 U
111	. 0604250F	Integrated EW/CNI Development	4	9,922		Þ
112	0604268F	Aircraft Engine Component Improvement Program	4	89,454	112,848	J 720 U
113	0604270F	EW Development	4	79,097	197,510	158,500 U
114	0604321F	Joint Tactical Fusion Program	4	4,972		ח

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Department of the Air Force FY 1993 R D T & E Program

Exhibit R-1

Line	 				Thousands	of Dollars
Line						
0	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
115	0604327F	Hardened Target Munitions	4		13,049	5,700 U
116	06046018	Chemical/Biological Defense Equipment	4	7,639	12,617	15,200 U
117	0604602F	Armament/Ordnance Development	4	2,254	5,466	6,200 U
118	0604604F	Submunitions	4	7,460	5,033	7,500 U
119	0604607F	Wide-Area, Anti-Armor Munitions	4	22,684		n
120	0604617F	Air Base Operability	4	966,9	10,072	14,400 U
121	0604618F	Joint Direct Attack Munition	4			33,300 U
122	0604703F	Aeromedical Systems Development	4	6,170	6,753	4,200 U
123	0604704F	Common Support Equipment Development	4	12,414	12,551	9,400 U
124	0604706F	Life Support Systems	4	14,947	12,082	12,830 U
125	0604708F	Civil, Fire, Environmental, Shelter Engineering	4	2,121	2,610	2,662 U
126	0604727F	Joint Standoff Weapons Systems	4			5,800 U
127	0604733F	Surface Defense Suppression	4	14,357	24,656	8,200 U
128	0604740F	Computer Resources Management Technology	4	13,683	16,997	N 006'8
129	0604750F	Intelligence Equipment	4	3,840	2,944	3,000 U
130	0604754F	Joint Tactical Information Distribution System	4	37,094	15,140	16,500 U
131	0604756F	(citus) Side Looking Airborne Radar	4	4,060		4,100 U
132	0604770F	Joint Surveillance/Target Attack Radar System	4	216,128	311,259	355,900 U
133	0604779F	Joint Interoperability of Tactical Command &	4	4,437	5,081	1,100 U
134	0207129F	Control systems (Jiniaces) F-111 Squadrons	4	11,215	29,773	29,200 U

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Department of the Air Force FY 1993 R D T & E Program		
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	tment	93

Exhibit R-1

Appr	Appropriation:	3600 F Research Development Test & Eval AF			Date: 2	29 Jan 1992
1		.			Thousands	of Dollars
Line No	Frogram Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
135	0207130F	F-15A/B/C/D Squadrons	4			3,300 U
136	0207131F	A-10 Squadrons	4		12,709	Þ
137	0207133F	F-16 Squadrons	4	26,365	158,299	183,800 U
138	0207134F	F-15E Squadrons	4	66,404	111,625	54,000 U
139	0207136F	Manned Destructive Suppression	4		4,954	8,800 U
140	0207137F	CONSTANT HELP	4			ם
141	0207141F	F-117A Squadrons	4	35,496	64,130	1,30C U
142	0207161F	Tactical AIM Missiles	4			34,600 U
143	0207162F	Tactical AGM Missiles	4	504		ח
144	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	4	17,953	30,285	. 35,400 U
145	0207169F	SEEK CLOCK	4			Ď
146	0207215F	TR-1 Squadron	4	49,317	20	n
147	0207217F	Follow-On Tactical Reconnaissance System	4	44,941	55,269	25,600 U
148	0207247F	AF TENCAP	4	346	558	700 :
149	0207248F	Special Tactical Unit Detachments	4			n
150	0207316F	TACIT RAINBOW	4	9,429		7
151	0207411F	Overseas Air Weapon Control System	4	2,126	1,883	D
152	0207412F	Tactical Air Control Systems	4	10,262	23,347	24,100 U
153	0207417F	Airborne Warning and Control System (AWACS)	4	125,444	205,173	130,900 U
154	0207419F	Tactical Airborne Command and Control Systems	4		3,451	6,300 U

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Department of the Air Force FY 1993 R D T & E Program

E Program Exhibit R-1	Date: 29 Jan 1992
FY 1993 R D T & E Program	Appropriation: 3600 F Research Development Test & Eval AF

1		;			Thousands	of Dollars
Line	Flogram Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
155	0207423F	Advanced Communications Systems	4	4,339	3,391	2 005
156	0207424F	Copper Coast	4			⋾
157	0207431F	Tactical Air Intelligence System Activities	4	480		
158	0207433F	Tactical Improvement Program	4			ņ
159	0207579F	Advanced Systems Improvements	4			ני
160	0207590F	Seek Eagle	4	14,418	20,036	31,000
191	0207591F	OMEGA	4			n
162	0208006F	Mission Planning Systems	4	7,960	12,698	15,400 U
163	0208010F	Joint Tactical Communications Program (TRI-TAC)	4	4,602	6,042	12,700 €
164	0208021F	Electronic Combat Support	4	2,051	2,651	2,200 U
165	0208042F	HAVE FLAG	4			ח
991	0303605F	Satellite Communications Terminals	4	5,932	1,907	4,00
167	0305137F	National Airspace System (NAS) Plan	4	9,898	2,993	7,100 "
168	0305142F	CENTENNIAL	4			n
163	0305158F	CONSTANT SOURCE	4	7,514	11,886	7,500 U
170	0305887F	Electronic Combat Intelligence Support	4	1,824	1,840	1,900 U
171	0401316F	Senior Citizen	4			n
172	0401840F	MAC Command and Control System	4	11,360	10,955	11,400 U
173	0404011F	Special Operations Forces	4			2,000 U
	Tactical Program	Programs		3,535,796	4,626,830	4,788,406

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Department of the Air Force

FY 1993 R D T & E Program	EXPIDIT K-1
Appropriation: 3600 F Research Development Test & Eval AF	Date: 29 Jan 1992
Thousar	Thousands of Dollars

	D. C. C.		i			8
Line	Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
174	0301305F	Intelligence Production Activities	S	102		n
175	0301310F	Foreign Technology Division	ν			ח
176	0301314F	Infrared/Electro-Optical/Dir. Energy Weapons	Ŋ			n
177	0301315F	Frocessing and Exploitation Missile and Space Technical Collection	2			n
178	0301317F	SENIOR YEAR Operations	2			n
179	0301324F	FOREST GREEN	Ŋ		-	D
180	0301339F	Intell Telecom and Defense Special Security Sys	2			n
181	0301357F	NUDET Detection System	Z.			n
182	0303110F	Defense Satellite Communications System	S.	19,089	15,160	15,300 U
183	0303126F	Long-Haul Communications (DCS)	2	3,538	3,828	3,400 U
184	0303144F	Electromagnetic Compatibility Analysis Center	2	10,087	10,188	10,155 U
185	0303401F	(BCAC) Communications Security (COMSEC)	ις.			Ω
186	0304111F	Special Activities	Ŋ			U
187	0305114F	Traffic Control, Approach, and Landing System	S	15,763	12,283	12,800 0
188	0305159F	(INACALS) Defense Reconnaissance Support Activities	ς,			ם
189	0305164F	NAVSTAR Global Positioning System (User Equipment	Ŋ	12,613	14,444	21,700 U
190	0305165F	NAVSTAR Global Positioning System (Space and Control Segments)	v	46,933	53,127	59,845 U
	Intelligence and	nce and Communications		1,993,006	2,434,413	2,518,558
191	0603402F	Space Test Program	9	51,045	44,676	53,700 U

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Department of the Air Force FY 1993 R D T & E Program

Exhibit R-1

	1				Thousands	of Dollars
Line No	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
192	0603438F	Satellite Systems Survivability	9	10,363	7,784	3,300 U
193	0604211F	Advanced Aerial Target Development	9	11,004	23,631	U 006,15
194	0604227F	Training Systems Development	9	38,493	42,152	37,224 U
195	0604243F	Manpower, Personnel and Training Development	9	3,650	2,509	3,300 U
961	0604408F	Advanced Launch System	9	24,772	54,383	125,000 U
197	0604609F	R&M Maturation/Technology Insertion	9	16,681	18,513	22,992 U
198	0604707E	Weather Systems - Eng Dev	9	4,623	5,185	7,000 U
199	0604735F	Range Improvement	9	81,897	56,391	69,772 U
200	0604747F	Electromagnetic Radiation Test Facilities	9	4,702	3,148	4,678 U
201	0604755F	Improved Capability for Development Test &	9	35,220	45,971	54,100 U
202	0605101F	Evaluation Project Air Force	9	24,771	22,488	23,100 U
203	0605306F	Ranch Hand II Epidemiology Study	9	1,496	9,677	D
204	0605502F	Small Business Innovative Research	9	63,532		D
205	0605708F	Navigation/Radar/Sled Track Test Support	9	23,025	25,747	27,279 U
206	0605712F	Initial Operational Test & Evaluation	9	15,884	21,119	27,172 U
207	0605807F	Test and Evaluation Support	9	304,608	370,617	423,826 U
208	0605808F	Development Planning	9	8,843	8,883	20,603 U
209	0605809F	DYCOMS	9	815		n
210	0605856F	Environmental Compliance	9			12,373 U
111	10000		,			

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Department of the Air Force FY 1993 R D T & E Program

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FY 1993 R D T & E Program		
FY 1993		on: 3600 F Research Development Test & Eval AF
		priations

Appro	Appropriation:	3600 F Research Development Test & Eval AF			Date:	29 Jan 1992
; ; ! !					Thousands	s of Dollars
Line			;	1001 20	1000 AB	6001
<u>Q</u>	Number	TCGE	Act	TAAT II	765 13	FI 1995 C
212	0605876F	Minor Construction (RPM) - RDT&E	9			842 U
213	0605878F	Maintenance and Repair (RPM) - RDISE	9			12,200 U
214	0605894F	Real Property Maintenance - RDT&E	9	81,544	99,647	n
215	0605896F	Base Operations - RDT&E	9	61,722	73,454	123,300 U
216	0305110F	Satellite Control Network	9	115,552	112,567	104,300 U
217	0305119F	Medium Launch Vehicles	9	204,045	43,202	41,800 U
218	0305130F	Consolidated Space Operations Center	9	21,790	15,045	n
219	0305138F	Upper Stage Space Vehicles	9		5,775	42,700 U
220	0305144F	Titan Space Launch Vehicles	9		141,532	142,800 U
221	0305160F	Defense Meteorological Satellite Program (DMSP)	9	48,408	28,234	23,300 U
222	0305171F	Space Shuttle Operations	9	14,076		D
223	0701112F	Inventory Control Point Operations	9	4,837	2,900	1,200 U
224	0702207F	Depot Maintenance (Non-IF)	9	2,715	2,936	2,900 U
225	0708011F	Industrial Preparedness	9	110,796	23,824	73,370 U
226	0708012F	Logistics Support Activities	9		6,561	6,171 U
227	0708026F	Productivity, Reliability, Availability,	9	19,995	23,798	23,689 U
228	0901218F	raincain: riog oto (reary) Civilian Compensation Program	9	4,478	5,174	5,300 U
229	1001004F	International Activities	9	3,288	2,946	3,727 U
	Defensewic	Defensewide Mission Support		1,473,902	1,393,972	1,590,218
Total		Research Development Test & Eval AF		11,975,169	13,590,944	14,532,375
		UNCLASSIFIED	SIFIED			Page F-12

Defense Agencies FY 1993 R D T & E Program

Exhibit R-1

Summary	ary	Date:	29 Jan 1992
		Thousand	Thousands of Dollars
	FY 1991	FY 1992	FY 1993
Summary Recap of Research Categories			
Research Exploratory Development	381,437	223,895	225,987
Advanced Development Engineering Development	5,393,461	5,648,999	6,518,761
Management and Support	171,406	124,270	95,749
Research and Development (FYDP Program 6)	7,065,712	7,291,430	8,068,284
	680151015	710/167/7	/60 / COK / T
Total Research Development Test & Eval Def Ag	109'180'6	9,522,442	10,053,381
Summary Recap of Budget Activities			
Technology Base	1,408,119	1,341,130	1,216,113
Advanced Technology Development	3,935,469	5,118,114	6,013,961
Tactical Programs	1,443,671	669,109	600,786
Intelligence and Communications Defensewide Mission Support	1,532,066	1,764,557	1,514,246
	000000000000000000000000000000000000000	621 / 767	0701/01
Total Research Development Test & Eval Def Ag	9,081,601	9,522,442	10,053,381
Summary Recap of FYDP Programs			
General Purpose Forces	57,022	53,118	27,167
interingence and communications Research and Development (FYDP Program 6)	1,738,906 7,065,712	1,895,515 7,291,430	1,695,071 8,068,284
Support of Other Nations	2,394	16,900	
Special Operations Forces	190,562	265,479	262,859
Total Research Development Test & Eval Def Ag	9,081,601	9,522,442	10,053,381

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Defense Agencies FY 1993 R L T & E Program

Exhibit R-1

	Summary		Date:	Date: 29 Jan 1992
			Thousands	Thousands of Dollars
	1	FY 1991	FY 1992	FY 1993
Summary Recap of Defense Agencies				
Defense Mapping Agency	2	231,100	233,271	62,076
Strategic Defense Initiative Organ	2,8	2,868,812	4,115,501	5,312,374
Office of Secretary/Defense	2,3	2,374,107	1,217,534	1,076,617
Defense Advanced Research Projects Agcy	1,4	1,455,463	1,464,055	1,293,620
National Security Agency				
Defense Nuclear Agency	4	446,504	488,384	477,036
Defense Support Project Office		57,321	230,361	259,135
Joint Chiefs of Staff		79,625	59,807	32,831
Defense Information Systems Agency	1	165,777	132,784	101,050
Defense Intelligence Agency				
Defense Logistics Agency		38,218	37,133	19,500
Uniformed Services University (USUHS)		2,465	3,200	
Special Operations Command	7	190,562	265,479	262,859
		1 1 1 1 1 1 1 1 1		
Total Research Development Test & Eval Def Ag	0'6	9,081,601	9,522,442	10,053,381

Defense Agencies FY 1993 R D T & E Program

Exhibit R-1

Appr	opriation:	Appropriation: 0400 D Research Development Test & Eval Def Ag			Date:	Date: 29 Jan 1992
	Program		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		Thousands	Thousands of Dollars
Line No		Item	Act	FY 1991	FY 1992	FY 1993 C
-	0601101E	Defense Research Sciences	1	82,236	112,410	126,078 U
^	W1011090	In-House Laboratory Independent Research	-	2,465	3,200	n
m	06011030	Univarsity Research Initiatives	7	242,208	98,519	N 606'66
4	06011060	Research Projects	7	39,622		u
S	06011090	US-JAPAN Management Training	1	10,000	9,766	n
9	0601112D	Critical Technology Center	7	4,906		Ð
7	0602109н	Superconductive Magnetic Energy Storage	7	15,000	40,000	n
80	0602222D	Counterterror Technical Support	٦,		6,708	n 066'9
6	0602225D	Concept Evaluation	7			14,979 U
10	0602227D	Medical Free Electron Laser	т	666'8	22,770	ກ
11	0602228D	Historically Black Colleges and Universities	7		15,000	n
12	0602301E	Strategic Technology	1	234,981	297,478	377,100 U
13	0602702E	Tactical Technology	7	131,758	124,835	109,300 U
14	0602707E	Particle Beam Technology	7	14,300	2,551	n
15	0602708E	Integrated Command and Control Technology	1	110,656	109,570	D
91	0602712E	Materials and Electronics Technology	1	158,482	112,606	71,800 U

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409,957 U

1,216,113

1,341,130

1,408,119

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19,663

26,052

326,454

Defense Nuclear Agency

18 0602715H

Technology Base

17 0602714E Treaty Verification

Defense Agencies FY 1993 R D T & E Program

Exhibit R-1

					Thousands	of Dollars
Line No	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
61	0603214C	Space Based Interceptors	7	867,583	466,069	575,558 U
20	06032150	Limited Defense System	8	394,148	1,434,343	2,134,755 U
21	0603216C	Theater Missile Defenses	7	178,452	802,710	857,725 U
22	0603217C	Other Follow On Systems	8	697,479	666,352	849,596 U
23	0603218C	Research and Support Activities	7	731,150	715,027	754,740 U
24	0603225D	Joint DoD-DoE Munitions Technology Development	7	17,775	17,939	18,976 U
25	0603226E	Experimental Evaluation of Major Innovative	7	176,487	249,550	270,867 U
56	0603227E	rechnologies Relocatable Target Detection Technology Program	8	20,957	28,340	Þ
27	0603231D	Miniature Diagnostic Proton Accelerator	7	2,000		n
78	0603569E	Advanced Submarine Technology	8	74,600	72,871	006'15
29	0603570E	Pre-Competitive Technology Development	8	50,000	000'09	n
30	0603704D	Special Technical Support	7	10,992	9,945	9,289 U
31	0603706E	Microwave/Willimeter Wave Monolithic Integrated	7	106,190		D
32	0603707E	Circuits (MIMIC) Prototyping of Advanced Technologies and	7	54,752		n
33	0603715D	Innovative Concepts AIM-9 Consolidated Program	7	29,433		n
34	0603716D	Strategic Environmental Research Program	7	119,040	78,853	n
35	0603717D	Excimer Laser Technology	8	12,838		n
36	0603718D	Medical Research	7		10,000	n
37	0603719D	Focus Hope	8		20,000	D
38	06037200	White the Appendix of Droton	·		20 000	=

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Exhibit R-1

Appr	Appropriation:	0400 D Research Development Test & Eval Def Ag			Date:	29 Jan 1992
					Thousands	of Dollars
	Program		1	 	+ 	
No N		Item	Act	FY 1991	FY 1992	FY 1993 C
39	06037360	Computer Aided Logistics Support	8	15,551		11,216 U
40	0603737D	Balanced Technology Initiative	2	164,178	120,304	172,340 U
41	06037380	Cooperative DoD/VA Medical Research	7	19,872	19,525	ם
42	0603739E	Manufacturing Technology	8	000'86	208,341	255,400 U
43	0603756D	Consolidated DoD Software Initiative	7	22,358	26,511	n 610'6
44	0603756E	Consolidated DoD Software Initiative	7	34,222	42,334	n
45	0604704D	Rocket Motor Demilitarization Program	7		27,345	п 658'91
46	0305108K	Command and Control Research	~	2,486	2,056	1,833 U
47	0702807E	Infrared Focal Plane Array	7	16,575		n
48	1140011BB	•	7	18,351		D
49	1160401BB	and Acquisition S Special Operations Technology Development	7		3,000	2,940 U
20	1160402BB	B Special Operations Advanced Technology Developmen	~		16,400	14,399 U
51	1160407BB	B SOF Medical Technology Development	7		299	549 U
	Advanced	Advanced Technology Development		3,935,469	5,118,114	6,013,961
52	0603711H	Verification Technology Demonstration	m	105,050	82,330	U 670,73
53	0603734J	Island Support	m	79,625	59,807	31,045 U
54	0603741D	Air Defense Initiative	m	136,463	158,174	231,220 U
55	0604225C	Theater Missile Defenses	m		31,000	140,000 U
99	0302016K	National Military Command System-Wide Support	m	11,127	11,147	9,083 U

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Defense Agencies FY 1993 R D T & E Program

Exhibit R-1

Date: 29 Jan 1992 Appropriation: 0400 D Research Development Test & Eval Def Ag

					Thousands	of Dollars
Line No	Frogram Line Element No Number	Item	Act	FY 1991	FY 1992	FY 1993 C
57	0302019K	WWWCCS Systems Engineer	м	16,595	11,234	9,182 U
58	0303131K	Minimum Essential Emergency Communications	3	8,877	3,870	3,335 U
59	0303154K	Network (MEECN) WWMCCS ADP Modernization	m	46,451	39,845	29,503 U
	Strategic	Programs		404,188	397,407	520,447
9	0603228D	Physical Security Equipment	4	33,379	29,500	26,611 U
61	0603709D	Joint Robotics Program	4	20,584	20,255	19,422 U
62	0603710D	Classified Program - C3I	4	736,839	5,308	15,781 U
63	0603714D	Non-Acoustic ASW	4	29,233	42,776	30,000 U
64	0603715D	AIM-9 Consolidated Program	4		088,09	28,143 U
9	0603743D	Theater Tactical Ballistic Missile Defense	4	214,124		Ω
99	0604702D	Joint Standoff Weapons Program	4	22,839		D
47	0604705D	Mobile Offshore Base Analysis	4		3,000	Đ
89	0604771D	Joint Tactical Information Distribution System	4	64,981	115,686	80,802 U
69	0201135J	(JIDS) CINC C2 Initiatives	4			1,786 U
70	0201135K	CINC C2 Initiatives	4	1,974	1,803	Þ
71	0208045K	C3 Interoperability (Joint Tactical C3 Agency)	4	48,186	44,212	25,381 U
72	0208298K	Management Headquarters (Joint Tactical C3 Agency	4	6,862	7,103	n
73	0305141D	Joint Remotely Piloted Vehicles Program	4	90,484	66,933	129,059 U
74	0305815D	General Support for SO/LIC	4	1,975	1,953	ח

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Force Enhancements-Active

1110011BB

75

1160405BB 1160408BB

17 18

1160404BB

96

Item

Program Line Element No Number

54,190

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FY 1993 C

FY 1992

Date: 29 Jan 1992 Thousands of Dollars

Exhibit R-1

158,223 U 11,897 U 73,681 U

175,453 10,057 =

3,29

1,600

15,968 1

9,914

Management Headquarters GDIP

Cryptologic Activities

0301301L

80 8

0301398L

0303126K 0303127K

82 83 84 85 98 87 88 68 9 16

0301011G

79

Tactical Programs

 \supset \Rightarrow

600,786

601,699

2

55,949 U 203,300 U 6,127 U

226,790

223,725

48,779

147,485

23,900 7,375

6,481

12,849 U

8,398

Page D-5

7

52,835

82,876

33,421

5

Defense Reconnaissance Support Activities Defense Reconnaissance Support Activities

C31 Intelligence Programs

Computer Security

0305167G

03051591

0305190D

Defense Reconnaissance Support Activities

0305159B 0305159G

DMA Mapping, Charting, and Geodesy (MC&G) Production System Improveme Airborne Reconnaissance Support Program

Selected Activities

0304311D 0305139B 03051541

0303401G

Defense Agencies FY 1993 R D T & E Program

Exhibit R-1

1	Eval Def Ag	
	Test &	
,	Development	
	D Research	
	0400	
	riations	

Appr	Appropriation:	0400 D Research Development Test & Eval Def Ag			Date:	29 Jan 1992
! !					Thousands	Thousands of Dollars
Line	Program Element Number	Item	Act 	FY 1991	FY 1992	FY 1993 C
93	0305830K	Center for Information Management	s			3,47º U
94	0305884L	Intelligence Planning & Review Activities	ν			ס
95	0305885G	Tactical Cryptologic Activities	ъ			כ
96	0305889G	Intelligence Support to OSD Counternarcotics	'n			ū
97	0305898L	Management Headquarters (Auxiliary Forces)	S			5
86	1160409BB	B Other Force Programs	ĸ		080'9	1,170 U
	Intelligence and	ence and Communications		1,532,066	1,764,557	1,514,246
66	060370SD	Manufacturing Technology	9	49,055	65,196	כ
100	0803708D	Integrated Diagnostics	9	3,924	7,144	11,275 U
101	0603790D	NATO Research and Development	9	72,128	18,615	80,804 U
102	0603832D	Joint Wargaming Simulation Management Office	9	15,000		ח
103	0604722D	Joint Service Education and Training Systems	٠ç	4,906		n
104	0605104D	Development Technical Support to USD(A)	9	18,090	37,727	39,161 U
105	0605106D	General Support for PA&E	9	4,476		ם
106	0605107D	General Support for Policy	9	6,227		D
101	0605108D	General Support for Net Assessment	9	4,143		ם
108	06015090	General Support for FM&P	9	1,605		ס
109	0605110D	Technical Support to USD(A)Critical Te nnology	9	2,942		Þ
110	0605112D	Rand National Defense Research Institute	9	110,71		n

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Defense Agencies FY 1993 R D T & E Program

Exhibit R-1

Appro	Appropriation:	0400 D Research Development Test & Eval Def Ag		· · · · · · · · · · · · · · · · · · ·	Date:	29 Jan 1992
	 				Thousands	of Dollars
Line No	Program Element Number	Item	Act	FY 1991	FY 1992	EY 1993 C
111	0605114E	BLACK LIGHT	9	5,760	4,000	2,000 U
112	0605116D	General Support to C31	9	2,140	14,476	11
113	0605117D	Foreign Material Acquisition and Exploitation	9	10,886	10,242	11,913 U
114	06021190	General Support for P&L	9	2,457		b
115	06051208		9		6,033	6,100 U
116	0605135D	Information Services Environmental Center	9	2,000		n
111	0605136D	Flexible Computer Integrated Manufacturing System	9		17,500	ភ
118	06055020	Small Business Innovative Research	9	24,642		n
119	0605502E	Small Business Innovative Research	9	12,165		n
120	06057115	Critical Technology Analysis	9	3,019		Ð
121	0605798S	Defense Support Activities	9	8,972	14,200	13,400 U
122	06058018	Defense Technical Information Center	9	13,277		ח
123	06058028	Information Analysis Centers	9	5,539		ם
124	0605803D	R&D in Support of DoD Enlistment, Testing and	9	1,765		ם
125	0605872D	Evaluation Productivity Investments	9		989	ם
126	0605898E	Management Headquarters (Research and Development	9	21,290	19,506	20,175 U
127	0305889D	Intelligence Support to OSD Counternarcotics	9	2,845		n
128	0305889E	Intelligence Support to OSD Counternarcotics	9	000'96		ກ
129	07080118	Industrial Preparedness	9	10,430	16,900	ລ
130	1001001	Technology Security Functions	9	2,394		n
	Defensewi	Defensewide Mission Support		358,088	232,125	187,828
Total		Research Development Test & Eval Def Ag		9,081,601	9,522,442	10,053,381 Page D-7

Defense Agencies FY 1993 R D T & E Program

Summary

Date: 29 Jan 1992

Exhibit R-1

		Thousands	Thousands of Dollars
	FY 1991	FY 1992	FY 1993
Summary Recap of Research Categories			
Engineering Development Management and Support	111,907	93,067	116,060
Research and Development (FYDP Program 6)	237,310	210,225	281,707
Total Director of Test & Eval Defense	237,310	210,225	281,707
Summary Recap of Budget Activities			
Defensewide Mission Support	237,310	210,225	281,707
Total Director of Test & Eval Defense	237,310	210,225	281,707
Summary Recap of FYDP Programs			
Research and Development (FYDP Program 6)	237,310	210,225	281,707
Total Director of Test & Eval Defense	237,310	210,225	281,707

		Defens FY 1993 F	Defense Agencies FY 1993 R D T & E Program	ogram		Exhibit R-1
Appr	Appropriation: 0450 D	1450 D Director of Test & Eval Defense			Date:	Date: 29 Jan 1992
1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	Thousands	Thousands of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
-4	0604940D	Central Test and Evaluation Investment	9	111,907	93,067	116,060 U
2	06051300	Development (CTEIP) Foreign Comparative Testing	9	29,878	17,100	35,301 U
m	0605131D	Live Fire Testing	9	17,688	16,008	U 870,11
4	06058040	Development Test and Evaluation	9	77,837	84,050	119,268 U
	Defensewide Miss	de Mission Support		237,310	210,225	281,707
Tota	Total Director of Test	of Test & Eval Defense		237,310	210,225	281,707

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Defense Agencies FY 1993 R D T & E Program

Summary

Date: 29 Jan 1992

Exhibit R-1

		Thousands	Thousands of Dollars
	; 	FY 1992	FY 1993
Summary Recap of Research Categories			
Management and Support	13,550	12,836	12,983
Research and Development (FYDP Program 6)	13,550	12,836	12,983
Total Director of Operational Test & Evaluation	13,550	12,836	12,983
Summary Recap of Budget Activities			
Defensewide Mission Support	13,550	12,836	12,983
Total Director of Operational Test & Evaluation	13,550	12,836	12,983
Summary Recap of FYDP Programs			
Research and Development (FYDP Program 6)	13,550	12,836	12,983
Total Director of Operational Test & Evaluation	13,550	12,836	12,983

Defense Agencies FY 1993 R D T & E Program

Exhibit R-1

တ္စပ Date: 29 Jan 1992 Thousands of Dollars Operational Test & Evaluation Appropriation: 0460 D Director Front Electric No. Num

rogram		İ		8	S
Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
0605118D Opera	rational Test and Evaluation	9	13,550	12,836	12,983 U
Defensewide Mission Support	ssion Support		13,550	12,836	12,983
Director of Op	Director of Operational Test & Evaluation		13,550	12,836	12,983

Total

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Defense Mapping Agency FY 1993 R D T & E Program

Exhibit R-1

Appro	Appropriation: 0400 D	Research				Date: 29 Jan 1992
	Program		; ; ; ;	Thousands of Dollars	Thousands	Thousands of Dollars
Line	e Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
98	0305139B	DMA Mapping, Charting, and Geodesy (MC&G)	S	223,725	226,790	55,949 U
88	03051598	Frounction System improveme Defense Reconnaissance Support Activities	S	7,375	6,481	6,127 U
	Intelligence and	ce and Communications		231,100	233,271	62,076
Total	l Defense Mapping	apping Agency		231,100	233,271	62,076

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Strategic Defense Initiative Orgzn FY 1993 R D T & E Program

Exhibit R-1

Appr	opriation:	Appropriation: 0400 D Research Development Test & Eval Def Ag			Date	Date: 29 Jan 1992
† 						Thousands of Dollars
Line	Line Element No Number	Item	Act	FY 1991	FY 1992	FY 1993 C
19	19 0603214C	Space Based Interceptors	8	867,583	466,069	575,558 U
20	06032150	Limited Defense System	8	394,148	1,434,343	2,134,755 U
21	0603216C	Theater Missile Defenses	71	178,452	802,710	857,725 U
22	0603217C	Other Follow On Systems	~	697,479	666,352	849,596 U
23	0603218C	Research and Support Activities	7	731,150	715,027	754,740 U
	Advanced	Advanced Technology Dev≅lopment		2,868,812	4,084,501	5,172,374
55	06042250	Theater Missile Defenses	m		31,000	140,000 U
	Strategio	Strategic Programs		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31,000	140,000
Total		Strategic Defense Initiative Orgzn		2,868,812	4,115,501	5,312,374

Office of Secretary/Defense FY 1993 R D T & E Program

Exhibit R-1	Date: 29 Jan 1992
FY 1993 R D T & E Program	Appropriation: 0400 D Research Development Test & Eval Def Ag

					Thousands	Thousands of Dollars
Line	Flogiam Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
æ	06011030	University Research Initiatives	٦.	242,208	98,519	N 606'66
4	09011090	Research Projects	-	39,622		Þ
ις.	06011090	US-JAPAN Management Training	ч	10,000	99,766	ם
9	0601112D	Critical Technology Center	7	4,906		n
œ	0602222D	Counterterror Technical Support	7		6,708	n 066'9
6	0602225D	Concept Evaluation	1			14,979 U
10	0602227D	Medical Free Electron Laser	-	666'8	22,770	ם
11	0602228D	Historically Black Colleges and Universities	7		15,000	n
	Technology Base	7 Base		305,735	152,763	121,878
24	0603225D	Joint DoD-DoE Munitions Technology Development	8	17,775	17,939	18,976 U
27	0603231D	Miniature Diagnostic Proton Accelerator	8	2,000		Þ
30	0603704D	Special Technical Support	٨	10,992	9,945	9,289 U
33	0603715D	AIM-9 Consolidated Program	8	29,433		D
34	0603716D	Strategic Environmental Research Program	8	119,040	78,853	n
35	0603717D	Excimer Laser Technology	8	12,838		D
36	0603718D	Medical Research	8		10,000	Þ
37	0603719D	Focus Hope	8		20,000	ם
38	0603720D	Environment Special Project	~		20,000	D
39	0603736D	Computer Aided Logistics Support	7	15,551		11,216 U

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Office of Secretary/Defense FY 1993 R D T & E Program

Appr	Appropriation: 0400 D	0400 D Research Development Test & Eval Def Ag			Date:	29 Jan 1992
			 	 	Thousands	of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
40	0603737D	Balanced Technology Initiative	7	164,178	120,304	172,340 U
41	0603738D	Cooperative DoD/VA Medical Research	^	19,872	19,525	n
43	0603756D	Consolidated DoD Software Initiative	7	22,358	26,511	0,019 U
45	0604704D	Rocket Motor Demilitarization Program	7		27,345	16,859 U
	Advanced Technolo	Technology Development		414,037	350,422	237,699
54	0603741D	Air Defense Initiative	м	136,463	158,174	231,220 U
	Strategic Program	Programs		136,463	158,174	231,220
9	0603228D	Physical Security Equipment	4	33,379	59,500	26,611 U
19	. 0603709D	Joint Robotics Program	4	20,584	20,255	19,422 U
62	0603710D	Classified Program - C3I	4	736,839	5,308	15,781 U
63	1 0603714D	Non-Acoustic ASW	4	29,233	42,776	30,000 U
64	1 0603715D	AIM-9 Consolidated Program	4		088,09	28,143 U
9	6 0603743D	Theater Tactical Ballistic Missile Defense	4	214,124		ח
99	0604702D	Joint Standoff Weapons Program	4	22,839		Ð
67	0604705D	Mobile Offshore Base Analysis	4		3,000	מ
89	0604771D	Joint Tactical Information Distribution System	4	64,981	115,686	80,802 U
73	0305141D	(Jilds) Joint Remotely Piloted Vehicles Program	4	90,484	66,933	129,059 U
74	0305815D	General Support for SO/LIC	4	1,975	1,953	Þ
	Tactical Programs	Programs		1,214,438	376,291	329,818

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Office of Secretary/Defense FY 1993 R D T & E Program

Exhibit R-1

12,849 U 11,275 U \supset ∍ ם ₽ \Rightarrow 80,804 U 39,161 U FY 1993 12,849 11,913 Date: 29 Jan 1992 Thousands of Dollars 7,144 14,476 8,398 8,398 10,242 FY 1992 65,196 18,615 37,727 49,055 1,605 2,140 48,779 3,924 72,128 15,000 4,906 18,090 4,476 4,143 2,942 10,886 2,457 5,000 48,779 6,227 17,011 FT 1991 Act S 9 Technical Support to USD(A)--Critical Technology Foreign Material Acquisition and Exploitation Joint Service Education and Training Systems Development Technical Support to USD(A) Appropriation: 0400 D Research Development Test & Eval Def Ag Joint Wargaming Simulation Management Office Rand National Defense Research Institute General Support for Net Assessment NATO Research and Development General Support for Policy C31 Intelligence Programs General Support for PA&E General Support for FM&P Manufacturing Technology General Support for P&L General Support to C31 Integrated Diagnostics Intelligence and Communications Environmental Center Selected Activities Item 0304311D 0305190D 0603705D 0603708D 06037900 0603832D 0604722D 0605106D 0605107D 0605108D 06012090 **00115090** 0605112D 0605116D 0605117D 06051190 0605135D 0605104D Program Line Element No Number 114 116 100 103 109 92 101 104 105 901 101 108 112 85 66 102

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Office of Secretary/Defense FY 1993 R D T & E Program

Exhibit R-1

Appro	priation: (Appropriation: 0400 D Research Development Test & Eval Def Ag			Date:	Date: 29 Jan 1992
			, 1 1 1 1		Thousands	Thousands of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 c
117	117 0605136D	Flexible Computer Integrated Manufacturing System	9		17,500	n
118	0605502D	Small Business Innovative Research	9	24,642		ם
120	0605711D	Critical Technology Analysis	9	3,019		n
124	0605803D	ReD in Support of DoD Enlistment, Testing and	9	1,765		D
125	0605872D	Evaluation Productivity Investments	9		586	Þ
127	0305889D	Intelligence Support to OSD Counternarcotics	9	2,845		ם
130	1001015D	Technology Security Functions	9	2,394		n
	Defensewi	Defensewide Mission Support		254,655	171,486	143,153
Tota	l Office o	Total Office of Secretary/Defense		2,374,107	1,217,534	1,076,617

Defense Advanced Research Projects Agcy PY 1993 R D T & E Program

Exhibit R-1

					Thousands	of Dollars
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
-	0601101E	Defense Research Sciences	-	82,236	112,410	126,078 U
12	0602301E	Strategic Technology	_	234,981	297,478	377,100 U
13	0602702E	Tactical Technology	7	131,758	124,835	109,300 U
14	0602707E	Particle Beam Technology	~	14,300	2,551	ח
15	0602708E	Integrated Command and Control Technology	-	110,656	109,570	n
16	0602712E	Materials and Electronics Technology	-	158,482	112,606	71,800 U
17	0602714E	Treaty Verification	-	26,052	19,663	n
	Technology Base	Base		758,465	779,113	684,278
25	0603226E	Experimental Evaluation of Major Innovative	7	176,487	249,550	270,867 U
26	0603227E	reconnotogies Relocatable Target Detection Technology Program	~	20,957	28,340	D
28	36958090	Advanced Submarine Technology	7	74,600	72,871	57,900 U
29	0603570E	Pra-Compatitive Technology Development	7	50,000	60,000	D
31	0603706E		~	106,190		D
32	0603707E	Prototyping of Advanced Technologies and	~	54,752		D
42	0603739E	imiovative Concepts Manufacturing Technology	~	000'86	208,341	255,400 U
4	0603756E	Consolidated DoD Software Initiative	7	34,222	42,334	
47	0702807E	Infrared Focal Plane Array	~	16,575		D
	Advanced Technology	echnology Development		631,783	661,436	584,167
11	87113070		,			

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d d	opt tactions				Thousands	of Do
Line	Program Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
119	06055022	Small Business Innovative Research	9	12,165		n
126	126 0605898E	Management Headquarters (Research and Development	9	21,290	19,506	20,175 U
128	0305889E	Intelligence Support to OSD Counternarcotics	9	26,000		מ
	Defensewide Miss	ide Mission Support		65,215	23,506	25,175
Total	l Defense	Defense Advanced Research Projects Agcy		1,455,463	1,464,055	1,293,620

National Security Agency FY 1993 R D T & E Frogram

Exhibit R-1

Appr	opriations	Appropriation: 0400 D Research Development Test & Eval Def Ag			Date:	Date: 29 Jan 1992	
			 	 	Thousand	Thousands of Dollars	
Line	Frogram Line Blement No Number	Item	Act	FY 1991	FY 1992	FY 1993 C	ற்றைப
79	0301011G	Cryptologic Activities	ĸ				∍
8	0303401G	Communications Security (COMSEC)	ស				⊃
83	0305159G	Defense Reconnaissance Support Activities	Ŋ				⊃
16	0305167G	Computer Security	ĸ				⊃
95	0305885G	Tactical Cryptologic Activities	S				
96	0305889G	Intelligence Support to OSD Counternarcotics	ß				
	Intellig	Intelligence and Communications		1			
Pota	l Nationa	Total National Security Agency				 	

		Defense PY 1993	Defense Nuclear Agency 1993 R D T & E Program	cy ogram		Exhibit R-1	-
Appro	opriation:	Appropriation: 0400 D Research Development Test & Eval Def Ag			Date:	Date: 29 Jan 1992	
i !						Thousands of Dollars	
Line	Line Element No Number	Item	Act	FY 1991	FY 1992	FY 1993 C	
7	0602109н	Superconductive Magnetic Energy Storage	1	15,000	40,000	Ð	
38	0602715H	Defense Nuclear Agency	-	326,454	366,054	409,957 U	
	Technology Base	y Base		341,454	406,054	409,957	
25	0603711H	0603711H Verification Technology Demonstration	м	105,050	82,330	0 610,73	
	Strategic Programs	Programs		105,050	82,330	670,79	
Tota	Total Defense Nuclear	Nuclear Agency		446,504	488,384	477,036	

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	Exhibit R-1	
Derense Support Project Office	FY 1993 RDT & R Program	

Appr	opriation: (Appropriation: 0400 D Research Development Test & Eval Def Ag			Date:	Date: 29 Jan 1992
 				Thousands of Dollars	Thousand	Thousands of Dollars
Line	Flogram Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
87	03051541	Airborne Reconnaissance Support Program	S	23,900	147,485	203,300 U
90	03051591	Defense Reconnaissance Support Activities	S	33,421	82,876	55,835 U
	Intelligence and	nce and Communications		57,321	230,361	259,135
Total	ll Defense Support	Support Project Office		57,321	230,361	259,135

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	Ω
Joint	1993
	FY

Exhibit R-1

Appr	Appropriation: 0400 D				Date:	29	
!		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	! ! ! ! ! ! !		Thousands	Thousands of Dollars	
Line	Flogram Element Number	Item	Act	FY 1991	FY 1991 FY 1992 FY 1993 C	FY 1993 C	വധവ
53	53 0603734J	Island Sun Support	m	79,625	59,807	31,045 U	-
	Strategic	Strategic Programs		79,625	59,807	31,045	
69	69 02011353	CINC C2 Initiatives	4			1,786 U	_
	Tactical Programs	Programs				1,786	
Tota	Total Joint Chiefs of	lefs of Staff		79,625	59,807	32,831	

Defense Information Systems Agency PY 1993 R D T & E Program

		PY 1993 R D T & E Program	6 E Pr	E Program	4	Exhibit R-1
Appr	Appropriation: 0400 D	0400 D Research Development Test & Eval Def Ag		!	Date:	29 Jan 1992
! ! !			1 1 1 1 1		Thousands	of Dollars
Line	Frogram Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
46	0305108K	Command and Control Research	7	2,486	2,056	1,833 U
	Advanced	Advanced Technology Development		2,486	2,056	1,833
99	0302016K	National Military Command System-Wide Support	m	11,127	11,147	9,083 U
57	0302019K	WWMCCS Systems Engineer	m	16,595	11,234	9,182 U
58	0303131#	Minimum Essential Emergency Communications	٣	8,877	3,870	3,335 U
59	0303154K	Network (MEELN) WWMCCS ADP Modernization	m	46,451	39,845	29,503 U
	Strategic	Strategic Programs		83,050	960'99	51,103
70	0201135K	CINC C2 Initiatives	4	1,974	1,803	n
71	0208045K	C3 Interoperability (Joint Tactical C3 Agency)	4	48,186	44,212	25,381 U
72	0208298K	Management Headquarters (Joint Tactical C3 Agency	4	6,862	7,103	Ω
	Tactical	Tactical Programs		57,022	53,118	25,381
82	0303126K	Long-Haul Communications (DCS)	sc.	18,969	9,914	15,968 U
83	0303127K	Support of the National Communications System	2	4,250	1,600	3,295 U
93	0305830K	Center for Information Management	S			3,470 U
	Intelligence and	ance and Communications		23,219	11,514	22,733
Total		Defense Information Systems Agency		165,777	132,784	101,050

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Exhibit R-1
Defense Intelligence Agency FY 1993 R D T & E Program

Appr	Appropriation: 0400 D	Research Development			Date:	Date: 29 Jan 1992
	Program				Thousands of Dollars	Thousands of Dollars
Line		Item	Act	FY 1991	FY 1992 FY 1993 C	FY 1993 C
80	80 0301301L	General Defense Intelligence Program	'n			Ð
8	0301398L	Management Headquarters GDTP	S			n
94	0305884L	Intelligence Planning & Review Activities	ĸ			D
97	0305898L	Management Headquarters (Auxiliary Forces)	ĸ			Ð
	Intelligence and	nce and Communications		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,	

Total Defense Intelligence Agency

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Defense Logistics Agency FY 1993 R D T & E Program

		FY 1993 R	verense Logistics Agency Y 1993 R D T & E Program	ogram	ш	Exhibit R-1
Appro	Appropriation: 0400 D	400 D Research Development Test & Eval Def Ag			Date: 2	Date: 29 Jan 1992
i 1 1		1	1 1 1 1 1 1 1 1	, 	Thousands	Thousands of Dollars
Line	Flogram		 	·	, , , , , , ,	0 0 1
ON N	Number	Item	Act	FY 1991	FY 1992	FY 1993 C
115	06051208	Defense Business Operations Fund Technical	9		6,033	6,100 U
121	06057985	intofination Sefvices Defense Support Activities	9	8,972	14,200	13,400 U
122	06058015	Defense Technical Information Center	9	13,277		U
123	06058028	Information Analysis Centers	9	5,539		n
129	07080115	Industrial Preparedness	9	10,430	16,900	n
	Defensewid	Defensewide Mission Support		38,218	37,133	19,500
Total		Defense Logistics Agency		38,218	37,133	19,500

Uniformed Services University (USUHS) FY 1993 R D T & E Program

		UNITED SELVICES OFFICES OFFICES OF COORDS (COORDS)	T C B P	ogram		Exhibit R-1
Appr	priation:	esearch Development Test & Eval Def Ag			Date:	Date: 29 Jan 1992
				Thousands of Dollars	Thousands	Thousands of Dollars
Line I	Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
7	2 0601101W	In-House Laboratory Independent Research	-	2,465	3,200	ם
	Technology Base	ly Base		2,465	3,200	
Total	. Uniform	Total Uniformed Services University (USUHS)		2,465	3,200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Exhibit R-1 Date: 29 Jan 1992 Special Operations Command FY 1993 R D T & E Program

Appr	Appropriation: 0400	1400 D Research Development Test & Eval Def Ag			Date:	29 Jan 1992
i ! !	* * * * * * * * * * * * * * * * * * *		i 		Thousands	Thousands of Dollars
Line No	Frogram Element Number	Item	Act	FY 1991	FY 1992	FY 1993 C
48	1140011BB		7	18,351		n
4	1160401BB	and Acquisition Special Operations Technology Development	2		3,000	2,940 U
20	1160402BB	Special Operations Advanced Technology Developmen	2		16,400	14,399 U
51	1160407BB	SOF Medical Technology Development	7		299	549 U
	Advanced T	Advanced Technology Development		18,351	19,699	17,888
75	111001118	Force Enhancements-Active	4	172,211		Ω
76	1160404BB	Special Operations Tactical Systems Development	4		175,453	158,223 U
7.7	1160405BB	Special Operations Intelligence Systems	4		10,057	11,897 U
78	1160408BB	Development SOF Operational Enhancements	₹		54,190	73,681 U
	Tactical Programs	rograms		172,211	239,700	243,801
86	1160409BB Other	Other Force Programs	ια		6,080	1,170 U
	Intelligence and	ice and Communications			080'9	1,170
Tota	1 Special O	Total Special Operations Command		190,562	265,479	262,859

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